LIMA

RADIO PARTS COMPANY

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N. MAIN ST.
LIMA, OHIO

OUR NEW NUMBER
Phone 5-6756

LIMA RADIO PARTS COMPANY

Wholesale Electronics

600-02-04 N. MAIN STREET
LIMA, OHIO
PHONE: 6-6551

To you, The Electronic Parts Buyer, Northwestern Ohio's largest Wholesale Electronic Parts Center is happy to present this new 1956 Edition of our catalog.

It is our aim to provide the maximum number of tubes, components, parts and equipment for your selection. Only nationally known top lines, selected for the quality that you know and respect, are stocked.

About Shipment . . .

Normally your order is shipped the day it is received. New items are being constantly added to our stocks and should you need an item not listed, ask for it. Since it is impossible to list or stock the thousands of electronic items that are available, we stand ready at all times to obtain your requirements with the least possible delay.

About Warranty . . .

All merchandise listed is covered by the standard RETMA Warranty and defective merchandise will be repaired or replaced according to warranty terms if returned to our store. Written permission is required before returning any item.

About Special Service . . .

Lima Radio Parts Co. special services include speaker reconing; antenna rotor; booster and converter repair. To further aid you, consulting specialists are available in the fields of broadcast (FM - AM - T.V.) as well as public address and high fidelity sound.

About High Fidelity . . .

Operated in conjunction with, but as a separate division of Lima Radio Parts Co., is a fully equipped High Fidelity Sound Department—Audio Unlimited. It is the only one of its kind within 75 miles of Lima.

About Terms . . .

Open account terms are granted to rated firms or individuals on approval of credit department. Standard terms are 2% 10th prox. due net thereafter. C.O.D. orders must be accompanied by 25% deposit unless previous arrangements are made.

About Service . . .

A continuously streamlined sales and transportation system assures you of top service. Lima Radio Parts Co. has 17 home base employees plus four road salesmen catering to your needs. By constant improvement of all facilities we intend to remain the mecca for all things electronic. Northwestern Ohio and Indiana Dealers, Servicemen, Industry, Radio and T.V. Stations, Amateur and High Fidelity Specialists will find our service and inventory is tops.

About Price Changes . . .

Prices listed herein are subject to change without notice. The right is reserved to discontinue any item, however, suitable replacements will be suggested for your approval.

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Picture Tube Cross-Reference Chart

Notes pertaining to table below. In the **Tube** column ** indicates Projection type tubes. All heaters are 6.3 volts, 0.6 amps. The **Defl-Focus** column is keyed as follows: **1.** Magnetic Deflection and Focus; **2.** Magnetic Deflection Electrostatic Focus; **3.** Electrostatic Deflection and Focus. **Anode kv** column: The symbol # in this column indicates external conductive coating. All specifications are for reference only and are not to be construed as authoritative due to possible changes in design.

GLASS ALLOWANCE ON MOST TYPES

Tube	Shape and Type	Face Plate	Ion Trap	Defl. Focus	Anode kv	Defl. Angle	Neck Lgth. In.	Max. Over. Lgth. In.	MANUFACTURERS LIST AND DEALER PRICES			
									SYLVANIA		GE	
									List Price	Net Each	List Price	Net Each
3NP4**	○ Glass	Clear	None	1	25#	42°	7 5/16	10	......	......	......	$22.10†
5TP4**	○ Glass	Clear	None	2	27#	50°	7 15/32	12 1/8	......	......	$78.25	58.65
7DP4	○ Glass	Clear	Sgle.	2	8#	50°	8 1/8	14 7/16	......	......	......	......
7JP4	○ Glass	Clear	None	3	6	......	......	14 7/8	$27.75	$20.80	27.75	20.80
8AP4A	○ Metal	Gray	Sgle.	1	9	54°	7	14 1/4	......	......	27.75	19.40
10BP4A	○ Glass	Filter	Sgle.	1	12#	52°	8 3/16	18	20.75	15.50	20.75	15.50
10FP4A	○ Glass	Gr. Al.	None	1	12#	50°	8 3/16	18	......	......	26.00	19.50
12KP4A	○ Glass	Gr. Al.	None	1	12#	54°	7 1/8	18	29.75	21.35	31.50	23.65
12LP4A	○ Glass	Gray	Sgle.	1	12#	57°	8 1/4	19 1/8	25.25	19.00	25.25	19.00
12UP4B	○ Metal	Gray	Dble.	1	12	54°	8 1/16	18 5/8	......	......	42.75	32.00
12VP4A	○ Glass	Gray	Dble.	1	12#	55°	7 11/16	18 3/8	32.00	24.00	......	......
14CP4	☐ Glass	Gray	Sgle.	1	14#	70°	7 7/16	17 1/8	27.50	20.65	27.50	20.65
15GP22	○ Metal	COLOR KINESCOPE							......	......	265.00	235.00
16AP4A	○ Metal	Gray	Sgle.	1	14	53°	7 9/16	22 5/16	44.75	33.50	44.75	33.50
16AP4B	○ Metal	Gray Fr							......	......	......	......
16DP4A	○ Glass	Gray	Sgle.	1	15	60°	7 7/8	21	......	......	44.75	33.50
16GP4	○ Metal	Gray		1	14	70°	6 7/8	17 11/16	......	......	44.75	33.50
16GP4B	○ Metal	Gray—Etched Face							44.75	33.50	44.75	33.50
16JP4A	○ Glass	Gray	Dble.	1	16	60°	7 1/2	20 3/4	43.00	32.35	......	......
16KP4	☐ Glass	Gray	Sgle.	1	16	70°	7 1/2	18 3/4	32.00	24.00	32.00	24.00
16KP4A	☐ Glass	Gr. Al.	Sgle.						36.75	27.50	36.75	27.50
16LP4A	○ Glass	Gray	Sgle.	1	14#	52°	7 3/8	22 5/8	43.00	32.35	43.00	32.35
16RP4	☐ Glass	Gray	Sgle.	1	16#	70°	7 1/2	19 1/8	32.00	24.00	32.00	24.00
16TP4	☐ Glass	Gray	Sgle.	1	14	70°	6 7/8	18 1/2	32.00	24.00	32.00	24.00
16WP4A	○ Glass	Gray	Dble.	1	16#	70°	7 1/2	17 3/4	43.00	32.35	43.00	32.35
16ZP4	○ Glass	Gray	Dble.	1	16	52°	7 9/16	22 5/8	43.00	32.35	......	......
17AVP4	☐ Glass	Gray	Sgle.	2	16#	90°	6 1/2	16	34.00	22.50	......	......
17BP4A	☐ Glass	Gray	Sgle.	1	16#	70°	7 1/2	19 9/16	32.00	24.00	32.00	24.00
17BP4B	☐ Glass	Gr. Al.							36.75	28.00	37.50	28.00
17CP4	☐ Metal	Gray Fr	Sgle.	1	16	70°	7 3/16	19	40.00	30.00	40.00	30.00
17FP4A	☐ Glass	Gray	Sgle.	2	18#	70°	7 11/16	19 5/8	......	......	37.25	26.05
17GP4	☐ Metal	Fr. Filt.	Sgle.	2	16	70°	7 1/2	19 5/16	44.75	33.50	44.75	33.50
17HP4	☐ Glass	Filter	Sgle.	2	16#	70°	7 1/2	19 9/16	34.00	25.50	......	......
17JP4	☐ Glass	Gray	Sgle.	1	18#	70°	7 1/2	19 9/16	34.00	25.50	......	......
17LP4	☐ Glass	Filter	Sgle.	2	16#	70°	7 1/2	19 9/16	34.00	25.50	......	......
17QP4	☐ Glass	Filter	Sgle.	1	16#	70°	7 1/2	19 9/16	32.00	24.00	32.00	24.00
17RP4	☐ Metal	Gray	Sgle.	2	16#	65°	7 1/2	19	34.00	25.50	34.00	25.50
17TP4	☐ Metal	Fr. Filt.	Sgle.	2	16	66°	7 1/2	19 5/16	40.00	30.00	40.00	30.00
17YP4	☐ Glass	Gray	Sgle.	1	18#	66°	7 11/16	19 9/16	32.00	24.00	......	......
19AP4A	○ Metal	Filter	Sgle.	1	16	66°	7 1/8	22	......	......	48.75	36.50
19AP4B	○ Metal	Fr. Filt.	Sgle.						48.75	36.50	48.75	36.50
19FP4	○ Glass	Gray	Dble.	1	19	66°	7 7/8	22 1/2	......	......	......	......
20CP4	☐ Glass	Filter	Sgle.	1	18	70°	7 3/16	21 13/16	39.00	29.20	39.00	29.20
20CP4A	☐ Glass	Filter—Same with Ext. conductive coating.							39.00	29.20	39.00	29.20
20DP4	☐ Glass	Clear	Sgle.	1	18	70°	7 1/2	22 1/8	39.00	29.20	......	......
20DP4A	☐ Glass	Gray	Sgle.		18#				39.00	29.20	39.00	29.20
20HP4A	☐ Glass	Gray	Sgle.	2	16#	70°	7 1/2	22 1/8	42.75	30.50	42.75	30.50
20MP4	☐ Glass	Filter	Sgle.	2	16#	70°	7 1/2	22 1/8	57.75	43.25	......	......
21ALP4A	☐ Glass	Gr. Al.	Sgle.	2	18#	90°	7 1/2	20 3/8	46.00	34.50	46.00	34.50
21AMP4A	☐ Glass	Gr. Al.	Sgle.	1	18#	90°	7 1/2	20 3/8	44.25	33.20	......	......
21AP4	☐ Metal	Fr. Filt.	Sgle.	1	18	70°	7 1/2	22 5/8	47.00	35.20	47.00	35.20
21ARP4A	☐ Glass	Gr. Al.	Int.	1	20#	70°	7 1/2	23 1/32	......	......	58.70	41.05
21ATP4	☐ Glass	Al. Filt.	Sgle.	2	18#	90°	7 11/16	23 3/8	46.00	34.50	46.00	34.50
21AUP4A	☐ Glass	Gr. Al.	Sgle.	2	18#	72°	7 1/2	23 13/32	46.00	34.50	46.00	34.50
21AVP4A	☐ Glass	Gr. Al.	Sgle.	2	18#	72°	7 1/2	23 13/32	46.00	34.50	46.00	34.50
21AWP4	☐ Glass	Al. Filt.	Sgle.	1	18#	72°	7 1/2	23 13/32	44.25	33.20	44.25	33.20
21AXP22	○ Metal	NEW COLOR KINESCOPE							......	......	......	......
21EP4A	☐ Glass	Filter	Sgle.	1	18#	70°	7 1/2	23 3/8	39.00	29.20	39.00	29.20
21EP4B	☐ Glass	Gr. Al.	Sgle.						44.25	33.20	44.25	33.20
21FP4A	☐ Glass	Filter	Sgle.	2	18#	70°	7 1/2	23 3/8	40.75	30.50	40.75	30.50
21FP4C	☐ Glass	Al. Filt.	Sgle.	2	18#	70°	7 1/2	23 3/8	46.00	34.50	46.00	34.50
21MP4	☐ Metal	Fr. Filt.	Sgle.	2	16	70°	7 1/2	22 5/8	48.75	36.50	48.75	36.50
21WP4	☐ Glass	Gray	Sgle.	1	18#	66°	7 11/16	22 5/8	39.00	29.20	......	......
21WP4A	☐ Glass	Gr. Al.							47.00	33.20	47.00	33.20
21XP4	☐ Glass	Gray	Sgle.	2	18#	66°	7 11/16	22 5/8	40.75	30.50	......	......
21XP4A	☐ Glass	Gr. Al.							48.50	34.50	48.50	34.50
21YP4	☐ Glass	Gray	Sgle.	2	18#	70°	7 1/2	23 13/32	40.75	30.50	40.75	30.50
21YP4A	☐ Glass	Al. Filt.	Sgle.	2	18#	70°	7 1/2	23 13/32	46.00	34.50	46.00	34.50
21ZP4A	☐ Glass	Gray	Sgle.	1	18#	70°	7 1/2	22 15/16	39.00	29.20	39.00	29.20
21ZP4B	☐ Glass	Al. Filt.	Sgle.	1	18#	70°	7 1/2	23 13/32	44.25	33.20	44.25	33.20
22AP4A	○ Metal	Gray	Sgle.	1	19	70°	7 5/16	23 13/32	......	......	......	......
24AP4	○ Metal	Filter	Sgle.	1	16	70°	7 5/32	23 15/16	......	......	120.00	90.00
24CP4	☐ Glass	Gray	Sgle.	1	20#	90°	7 1/2	21 1/2	......	......	......	......
24CP4A	☐ Glass	Gr. Al.							64.50	48.50	64.50	48.50
24DP4A	☐ Glass	Al. Filt.	Sgle.	2	20#	90°	7 1/2	21 1/2	66.50	50.00	66.50	50.00
24YP4	☐ Glass	Al. Filt.	Sgle.	2	20#	90°	7 1/2	21 1/2	66.50	50.00	......	......
27AP4	○ Metal	Filter	Sgle.	2	18	86°	7 1/2	21 3/8	......	......	......	......
27EP4	☐ Glass	Gr. Al.	Sgle.	1	20	90°	7 1/2	23 1/16	117.00	88.00	117.00	88.00
27GP4	☐ Glass	Gray	Sgle.	1	22.5	90°	7 1/2	23 1/16	......	......	......	......
27MP4	☐ Metal	Al. Filt.	Sgle.	1	18	90°	7 1/2	22 3/16	......	......	......	......
27RP4	☐ Glass	Gr. Al.	Sgle.	1	20#	90°	7 11/16	7 7/16	117.00	88.00	117.00	88.00

AS NEW TYPES OF PICTURE TUBES ARE DEVELOPED, WE WILL HAVE THEM AVAILABLE IN OUR STOCK. DO NOT HESITATE TO ORDER AN UNLISTED TYPE.

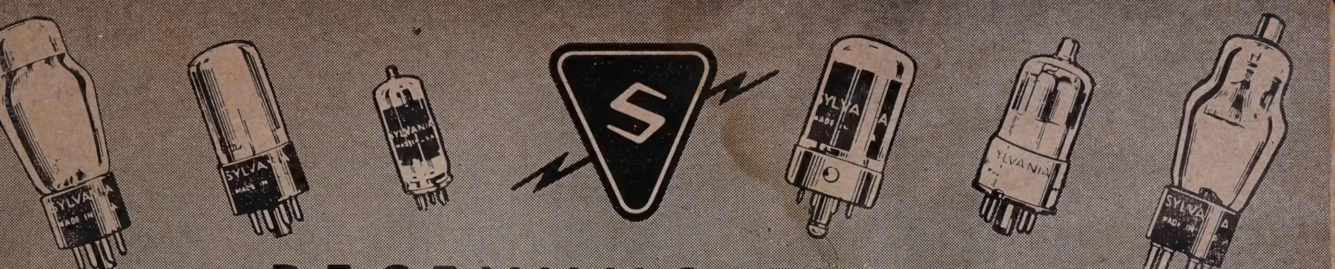
†North American Phillips

Electronic RECEIVING TUBES

TUBES MAY BE ASSORTED TO OBTAIN QUANTITY PRICES

The tubes listed on these pages represent practically all types generally in demand. As new types are released we will have them immediately available. If a particular type is not listed it is due to space limitations rather than our inability to supply. We invite your orders for all types, whether listed or not. We try to maintain complete stocks at all times but the listing and pricing of a particular tube does not necessarily mean it is available. Average shipping weight per tube, 4 oz. Per 100 tubes, 25 lbs. Tubes indicated with ★ are NEW color receiving types. *Series string TV types.

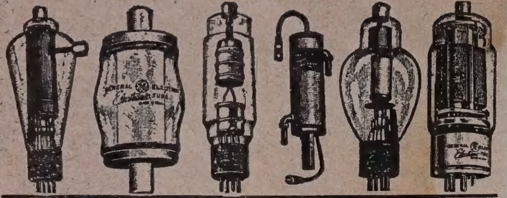
TUBE TYPE	LIST PRICE	NET EACH	
		1-24	25 & up
0Z4	$1.40	$0.84	$0.70
1A3	2.50	1.50	1.25
1A5GT	2.10	1.26	1.05
1A6	3.65	2.19	1.83
1A7GT	2.65	1.59	1.33
1AC5	3.50	2.10	1.75
1AD5	3.50	2.10	1.75
1AG4	2.90	1.74	1.45
1AH4	2.90	1.74	1.45
1AX2	2.50	1.50	1.25
1B3GT/8016	2.50	1.50	1.25
1C5GT	2.60	1.56	1.30
1D8GT	4.55	2.73	2.28
1G4GT	2.60	1.56	1.30
1G6GT	3.00	1.80	1.50
1H4G	2.35	1.41	1.18
1H5GT	2.15	1.29	1.08
1L4	2.15	1.29	1.08
1L6	2.90	1.74	1.45
1LA4	2.95	1.77	1.48
1LA6	2.75	1.65	1.38
1LB4	2.95	1.77	1.48
1LC5	2.75	1.65	1.38
1LC6	2.75	1.65	1.38
1LD5	2.75	1.65	1.38
1LE3	2.75	1.65	1.38
1LG5	2.75	1.65	1.38
1LH4	2.75	1.65	1.38
1LN5	2.75	1.65	1.38
1N5GT	2.60	1.56	1.30
1Q5GT	3.05	1.83	1.53
1R5	2.25	1.35	1.13
1S4	2.55	1.53	1.28
1S5	1.90	1.14	.95
1T4	2.15	1.29	1.08
1T6	3.50	2.10	1.75
1U4	2.10	1.26	1.05
1U5	1.85	1.11	.93
1V	2.55	1.53	1.28
1V2	1.55	.93	.78
1V6	3.70	2.22	1.85
1X2A	2.50	1.50	1.25
1X2B	2.50	1.50	1.25
2A3	4.55	2.73	2.28
2A6	2.85	1.71	1.43
2AF4A*	3.45	2.07	1.73
3A2	2.90	1.74	1.45
3A3 ★	2.90	1.74	1.45
3AL5*	1.60	.96	.80
3AU6*	1.75	1.05	.88
3AV6*	1.55	.93	.78
3B2	4.45	2.67	2.23
3BA6*	2.05	1.23	1.03
3BC5*	2.00	1.20	1.00
3BE6*	1.90	1.14	.95
3BN6*	2.70	1.62	1.35
3BY6*	2.05	1.23	1.03
3BZ6*	2.00	1.20	1.00
3CB6*	2.00	1.20	1.00
3CF6*	2.20	1.32	1.10
3CS6*	1.90	1.14	.95
3LF4	3.10	1.86	1.55
3Q4	2.20	1.32	1.10
3Q5GT	2.80	1.68	1.40
3S4	2.15	1.29	1.08
3V4	2.15	1.29	1.08
4BQ7A*	3.25	1.95	1.63
4BZ7*	3.45	2.07	1.73
5AM8*	2.85	1.71	1.43
5AN8*	3.00	1.80	1.50
5AQ5*	1.90	1.14	.95
5AS4	1.75	1.05	.88
5AS8	2.85	1.71	1.43
5AT8*	2.80	1.68	1.40
5AV8*	2.90	1.74	1.45
5AW4	2.75	1.65	1.38
5AZ4	1.55	.93	.78
5B8*	2.90	1.74	1.45
5BE8*	2.90	1.74	1.45
5BK7A*	2.90	1.74	1.45
5J6*	2.35	$1.41	$1.18
5T4	5.00	3.00	2.50
5T8*	2.90	1.74	1.45
5U4G	1.70	1.02	.85
5U4GA/GB	1.75	1.05	.88
5U8*	2.90	1.74	1.45
5V4G	2.55	1.53	1.28
5W4GT	1.75	1.05	.88
5X4G	2.05	1.23	1.03
5X8*	2.80	1.68	1.40
5Y3G	1.45	.87	.73
5Y3GT	1.25	.75	.63
5Y4G-GT	1.85	1.11	.93
5Z3	2.00	1.20	1.00
5Z4	3.60	2.16	1.80
6A3	3.90	2.34	1.95
6A6	2.90	1.74	1.45
6A7	3.05	1.83	1.53
6A8	2.90	1.74	1.45
6A8G	2.75	1.65	1.38
6A8GT	2.90	1.74	1.45
6AB4	1.70	1.02	.85
6AB5/6N5	2.85	1.71	1.43
6AB7/1853	3.55	2.13	1.78
6AC5GT	3.10	1.86	1.55
6AC7/1852	3.10	1.86	1.55
6AD7G	4.25	2.55	2.13
6AF4	3.40	2.04	1.70
6AF4A	3.40	2.04	1.70
6AF6G	2.85	1.71	1.43
6AG5	2.05	1.23	1.03
6AG7	3.50	2.10	1.75
6AH4GT	2.45	1.47	1.23
6AH6	3.45	2.07	1.73
6AH6V	3.45	2.07	1.73
6AJ4	4.45	2.67	2.23
6AK5	4.20	2.52	2.10
6AK6	2.30	1.38	1.15
6AL5	1.55	.93	.78
6AL7GT	3.85	2.31	1.93
6AM4	4.45	2.67	2.23
6AM8 ★	2.75	1.65	1.38
6AN4	4.40	2.64	2.20
6AN8 ★	2.95	1.77	1.48
6AQ5	1.85	1.11	.93
6AQ6	1.70	1.02	.85
6AQ7GT	3.05	1.83	1.53
6AR5	2.05	1.23	1.03
6AS5	2.00	1.20	1.00
6AS7G	6.25	4.45	4.45
6AS8	3.00	1.80	1.50
6AT6	1.50	.90	.75
6AT8	2.75	1.65	1.38
6AU4GTA ★	2.90	1.74	1.45
6AU5GT	3.20	1.92	1.60
6AU6	1.70	1.02	.85
6AU8*	2.90	1.74	1.45
6AV5GT	3.35	2.01	1.68
6AV6	1.50	.90	.75
6AW8*	3.20	1.92	1.60
6AX4GT	2.35	1.41	1.18
6AX5GT	2.05	1.23	1.03
6AX7*	2.35	1.41	1.18
6AZ8	3.35	2.01	1.68
6B4G	4.55	2.73	2.28
6B5	3.45	2.07	1.73
6B6G	2.45	1.47	1.23
6B7	3.50	2.10	1.75
6B8	3.50	2.10	1.75
6B8G	3.65	2.19	1.83
6BA6	1.80	1.08	.90
6BA7	2.60	1.56	1.30
6BA8*	3.20	1.92	1.60
6BC4	4.10	2.46	2.05
6BC5	2.00	1.20	1.00
6BC7	3.20	1.92	1.60
6BC8	3.45	2.07	1.73
6BD4A ★	14.25	9.75	9.75
6BD5GT	3.60	2.16	1.80
6BD6 ★	1.80	1.08	.90
6BE6	1.90	$1.14	$0.95
6BF5	2.25	1.35	1.13
6BF6	1.60	.96	.80
6BG6G	5.20	3.12	2.60
6BH6	2.30	1.38	1.15
6BH8*	2.90	1.74	1.45
6BJ6	2.05	1.23	1.03
6BJ7 ★	2.35	1.41	1.18
6BK4	6.15	3.69	3.08
6BK5	2.60	1.56	1.30
6BK7A	2.90	1.74	1.45
6BL4	5.25	3.15	2.63
6BL7GT	3.25	1.95	1.63
6BN6	2.65	1.59	1.33
6BQ6GT	3.50	2.10	1.75
6BQ6GTV/6CU6	3.50	2.10	1.75
6BQ7A	3.25	1.95	1.63
6BX7GT	3.35	2.01	1.68
6BY5G	3.30	1.98	1.65
6BY5GA	3.30	1.98	1.65
6BY6 ★	2.00	1.20	1.00
6BZ6	2.00	1.20	1.00
6BZ7	3.40	2.04	1.70
6C4	1.50	.90	.75
6C5	2.20	1.32	1.10
6C5GT	2.15	1.29	1.08
6C6	2.80	1.68	1.40
6C8G	3.85	2.31	1.93
6CB5	7.60	4.56	3.80
6CB6	2.00	1.20	1.00
6CD6G	4.70	2.82	2.35
6CF6	2.15	1.29	1.08
6CG7*	2.20	1.32	1.10
6CL6	3.10	1.86	1.55
6CM6	2.30	1.38	1.15
6CM7	2.40	1.44	1.20
6CN7	2.25	1.35	1.13
6CR6	2.05	1.23	1.03
6CS6	1.85	1.11	.93
6CU6	3.50	2.10	1.75
6D6	2.80	1.68	1.40
6D8G	3.50	2.10	1.75
6DC6	2.30	1.38	1.15
6DE6	2.05	1.23	1.03
6DG6GT	1.35	.81	.68
6E5	2.15	1.29	1.08
6F5	2.40	1.44	1.20
6F5GT	1.90	1.14	.95
6F6	2.65	1.59	1.33
6F6G-GT	2.00	1.20	1.00
6F7	4.25	2.55	2.13
6F8G	3.85	2.31	1.93
6G6G	2.85	1.71	1.43
6H6	2.00	1.20	1.00
6H6GT	2.30	1.38	1.15
6J5	1.90	1.14	.95
6J5GT	1.85	1.11	.93
6J6	2.35	1.41	1.18
6J7	2.50	1.50	1.25
6J7GT	2.80	1.68	1.40
6J8G	3.85	2.31	1.93
6K5GT	2.65	1.59	1.33
6K6GT	1.80	1.08	.90
6K7	2.30	1.38	1.15
6K7G	2.40	1.44	1.20
6K7GT	2.55	1.53	1.28
6K8	3.35	2.01	1.68
6K8G	3.50	2.10	1.75
6L5G	2.75	1.65	1.38
6L6	4.70	2.82	2.35
6L6G	3.40	2.04	1.70
6L6GB	3.10	1.86	1.55
6L7	3.15	1.89	1.58
6L7G	3.40	2.04	1.70
6N7	3.25	1.95	1.63
6N7GT	3.10	1.86	1.55
6P5GT	2.50	1.50	1.25
6Q7	2.45	1.47	1.23
6Q7G-GT	2.10	1.26	1.05



RECEIVING TUBES

TUBE TYPE	LIST PRICE	NET EACH	
		1-24	25 & up
6R7	2.80	$1.68	$1.40
6R8	3.60	2.16	1.80
6S4	1.75	1.05	.88
6S4A*	1.75	1.05	.88
6S7	3.25	1.95	1.63
6S8GT	2.75	1.65	1.38
6SA7-GT	2.30	1.38	1.15
6SB7Y	3.45	2.07	1.73
6SC7	2.50	1.50	1.25
6SD7GT	3.35	2.01	1.68
6SF5	2.05	1.23	1.03
6SF5GT	2.00	1.20	1.00
6SF57	2.75	1.65	1.38
6SG7	2.35	1.41	1.18
6SH7	2.75	1.65	1.38
6SH7GT	2.50	1.50	1.25
6SJ7	2.15	1.29	1.08
6SJ7GT	1.65	.99	.83
6SK7-GT	2.15	1.29	1.08
6SL7GT	2.60	1.56	1.30
6SN7GTA	2.15	1.29	1.08
6SN7GTB*	2.15	1.29	1.08
6SQ7-GT	1.90	1.14	.95
6SR7	2.05	1.23	1.03
6SS7	2.75	1.65	1.38
6ST7	2.80	1.68	1.40
6SV7	3.35	2.01	1.68
6SZ7	2.50	1.50	1.25
6T4	3.40	2.04	1.70
6T7G/6Q6G	3.50	2.10	1.75
6T8	2.90	1.74	1.45
6U5/6G5	2.05	1.23	1.03
6U6GT	2.45	1.47	1.23
6U7G	2.40	1.44	1.20
6U8	2.85	1.71	1.43
6V3A	3.95	2.37	1.98
6V6	3.65	2.19	1.83
6V6GT	1.85	1.11	.93
6V8	3.75	2.25	1.88
6W4GT	1.75	1.05	.88
6W6GT	2.25	1.35	1.13
6X4	1.40	.84	.70
6X5GT	1.40	.84	.70
6X8	2.75	1.65	1.38
6Y6G	2.60	1.56	1.30
6ZY5G	2.60	1.56	1.30
7A4/XXL	2.05	1.23	1.03
7A5	2.60	1.56	1.30
7A6	2.15	1.29	1.08
7A7	2.20	1.32	1.10
7A8	2.10	1.26	1.05
7AD7	4.70	2.82	2.35
7AF7	2.40	1.44	1.20
7AG7	2.55	1.53	1.28
7AH7	2.55	1.53	1.28
7AU7*	2.25	1.35	1.13
7B4	2.00	1.20	1.00
7B5	1.85	1.11	.93
7B6	2.05	1.23	1.03
7B7	2.05	1.23	1.03
7B8	2.30	1.38	1.15
7C4/1203A	3.60	2.16	1.80
7C5	2.15	1.29	1.08
7C6	1.90	1.14	.95
7C7	2.15	1.29	1.08
7E5/1201	2.90	1.74	1.45
7E6	3.00	1.80	1.50
7E7	3.35	2.01	1.68
7F7	2.55	1.53	1.28
7F8	3.45	2.07	1.73
7G7/1232	3.00	1.80	1.50
7H7	2.25	1.35	1.13
7J7	3.65	2.19	1.83
7K7	3.20	1.92	1.60
7L7	3.00	1.80	1.50
7N7	2.35	1.41	1.18
7Q7	2.60	1.56	1.30
7R7	3.50	2.10	1.75
7S7	3.45	2.07	1.73
7V7	3.50	2.10	1.75
7W7	3.50	2.10	1.75
7X6	2.20	1.32	1.10
7X7/XXFM	3.35	2.01	1.68
7Y4	1.85	1.11	.93
7Z4	1.85	1.11	.93
12A4	2.20	1.32	1.10
12A7	3.90	2.34	1.95
12A8GT	2.90	1.74	1.45
12AB5	1.85	1.11	.93
12AH7GT	3.05	1.83	1.53
12AL5	1.65	.99	.83
12AQ5	1.90	1.14	.95
12AT6	1.50	.90	.75
12AT7	2.60	1.56	1.30
12AU6	1.70	1.02	.85
12AU7	2.20	1.32	1.10
12AV5GA*	3.40	2.04	1.70
12AV6	1.45	.87	.73
12AV7	3.05	1.83	1.53
12AW6	2.45	1.47	1.23
12AX4GT	2.45	1.47	1.23
12AX4GTA*	2.45	1.47	1.23
12AX7	2.30	1.38	1.15
12AY7	6.00	3.60	3.00
12AZ7	2.60	1.56	1.30
12B4A*	2.20	1.32	1.10
12BA6	1.80	1.08	.90
12BA7	2.60	1.56	1.30
12BD6	1.80	1.08	.90
12BE6	1.90	1.14	.95
12BF6	1.60	.96	.80
12BH7	2.55	1.53	1.28
12BH7A*	2.55	1.53	1.28
12BK5*	2.65	1.59	1.33
12BQ6GTA*	3.65	2.19	1.83
12BQ6GTB/ 12CU6	3.55	2.13	1.78
12BY7	2.65	1.59	1.33
12BY7A*	2.65	1.59	1.33
12BZ7	2.55	1.53	1.28
12C5*	1.85	1.11	.93
12C8	3.95	2.37	1.98
12CA5*	2.05	1.23	1.03
12CR6	2.05	1.23	1.03
12CU6*	3.65	2.19	1.83
12F5GT	1.90	1.14	.95
12H6	2.20	1.32	1.10
12J5GT	1.85	1.11	.93
12J7GT	2.80	1.68	1.40
12K7GT	2.55	1.53	1.28
12K8	3.30	1.98	1.65
12K8GT	2.95	1.77	1.48
12L6GT*	1.90	1.14	.95
12Q7GT	2.10	1.26	1.05
12S8GT	2.75	1.65	1.38
12SA7	2.15	1.29	1.08
12SA7GT	2.15	1.29	1.08
12SC7	2.50	1.50	1.25
12SF5	2.15	1.29	1.08
12SF5GT	2.05	1.23	1.03
12SF7	2.75	1.65	1.38
12SG7	2.35	1.41	1.18
12SH7	2.75	1.65	1.38
12SJ7	2.15	1.29	1.08
12SJ7GT	2.00	1.20	1.00
12SK7-GT	2.00	1.20	1.00
12SL7GT	2.65	1.59	1.33
12SN7GT	2.15	1.29	1.08
12SQ7-GT	1.75	1.05	.88
12SR7	2.15	1.29	1.08
12SR7GT	2.00	1.20	1.00
12V6GT	1.85	1.11	.93
12W6GT*	2.30	1.38	1.15
12X4	1.40	.84	.70
12Z3	2.65	1.59	1.33
14A4	2.65	1.59	1.33
14A5	3.90	2.34	1.95
14A7/12B7	2.25	1.35	1.13
14AF7/XXD	2.50	1.50	1.25
14B6	2.25	1.35	1.13
14B8	2.25	1.35	1.13
14C5	3.00	1.80	1.50
14C7	2.50	1.50	1.25
14E6	2.90	1.74	1.45
14E7	3.35	2.01	1.68
14F7	2.55	1.53	1.28
14F8	3.45	2.07	1.73
14H7	2.50	1.50	1.25
14J7	3.65	2.19	1.83
14N7	2.65	1.59	1.33
14Q7	2.60	1.56	1.30
14R7	3.50	2.10	1.75
14S7	3.45	2.07	1.73
14W7	3.35	2.01	1.68
19	3.50	2.10	1.75
19AU4*	2.75	1.65	1.38
19BG6G	6.00	$3.60	$3.00
19C8	3.20	1.92	1.60
19J6	2.50	1.50	1.25
19T8	2.90	1.74	1.45
19X8	3.10	1.86	1.55
24A	2.75	1.65	1.38
25A6	3.50	2.10	1.75
25AV5GT	3.35	2.01	1.68
25AX4GT	2.75	1.65	1.38
25BK5	2.85	1.71	1.43
25BQ6GT	3.65	2.19	1.83
25BQ6GTB/ 25CU6	3.65	2.19	1.83
25C5	2.05	1.23	1.03
25CD6G	4.70	2.82	2.35
25CD6GA*	4.70	2.82	2.35
25L6	4.30	2.58	2.15
25L6GT	1.95	1.17	.98
25W4GT	2.10	1.26	1.05
25Y5	3.10	1.86	1.55
25Z5	2.00	1.20	1.00
25Z6	2.85	1.71	1.43
25Z6GT	1.95	1.17	.98
26	2.30	1.38	1.15
27	1.75	1.05	.88
30	2.30	1.38	1.15
31	2.75	1.65	1.38
32	3.70	2.22	1.85
32L7GT	3.35	2.01	1.68
33	3.50	2.10	1.75
34	3.65	2.19	1.83
35/51	2.40	1.44	1.20
35A5	2.25	1.35	1.13
35B5	2.10	1.26	1.05
35C5	1.90	1.14	.95
35L6GT	1.95	1.17	.98
35W4	1.25	.75	.63
35Y4	1.85	1.11	.93
35Z3	1.85	1.11	.93
35Z4GT	1.55	.93	.78
35Z5GT	1.45	.87	.73
36	2.90	1.74	1.45
37	1.85	1.11	.93
38	2.30	1.38	1.15
39/44	2.75	1.65	1.38
41	1.95	1.17	.98
42	2.15	1.29	1.08
43	2.30	1.38	1.15
45	2.15	1.29	1.08
45Z3	1.80	1.08	.90
46	3.05	1.83	1.53
47	5.30	3.18	2.65
49	2.85	1.71	1.43
50	5.15	3.09	2.58
50A5	2.25	1.35	1.13
50B5	2.10	1.26	1.05
50C5	1.90	1.14	.95
50C6G	3.35	2.01	1.68
50L6GT	1.95	1.17	.98
50X6	2.25	1.35	1.13
50Y6GT	2.30	1.38	1.15
50Y7GT	2.25	1.35	1.13
53	2.65	1.59	1.33
55	2.30	1.38	1.15
56	1.90	1.14	.95
57	2.10	1.26	1.05
58	2.10	1.26	1.05
59	3.70	2.22	1.85
70A7GT	3.55	2.13	1.78
70L7GT	6.95	4.17	3.48
71A	2.40	1.44	1.20
75	2.00	1.20	1.00
76	1.70	1.02	.85
77	2.20	1.32	1.10
78	2.40	1.44	1.20
79	2.75	1.65	1.38
80	1.70	1.02	.85
82	2.85	1.71	1.43
83	2.65	1.59	1.33
83V	3.40	2.04	1.70
84/6Z4	1.85	1.11	.93
85	2.30	1.38	1.15
117L7/M7GT	6.95	4.17	3.48
117N7GT	5.60	3.36	2.80
117P7GT	5.60	3.36	2.80
117Z3	1.85	1.11	.93
117Z6GT	3.15	1.89	1.58
5642	2.60	1.56	1.30

General Electric Industrial Tubes



TUBE TYPE	NET EA.
GL-1B24A	$ 43.00
GL-1B35A	11.10
GL-1B37A	15.00
GL-1B38	50.00
GL-1B44	38.00
GL-1B56	38.00
GL-1B63A	43.00
GL-CIJ	8.69
GL-1L21	14.00
GL-1L22	29.00
GL-1L23	29.00
GL-1L24	49.50
GL-1L25	15.75
GL-1L31	15.75
GL-1L32	14.00
GL-1L33	34.00
GL-1L36	14.00
GL-1L38	25.00
GL-1P21	50.00
GL-1P29/ FJ-401	2.95
GL-1P37	2.85
GL-1P39	1.75
GL-1P40	2.60
GL-1Q26	85.00
GL-1Q26A	120.00
GL-2A4G	4.80
GL-2AP1-A	10.85
GL-2B22	21.00
GL-2B23	23.50
GL-2BP1	11.00
GL-2C39A	24.00
GI-2C39B	37.50
GL-2C40†	24.00
GL-2C42	21.50
GL-2C43	21.50
GL-2C46	22.00
GL-2D21	1.85
GL-2E24	4.65
GL-2E26	3.85
GL-2E30	2.60
GL-2H21	100.00
GL-2X2A	2.17
KC-1	440.00
KC-3	350.00
GL-3AP1A	19.50
GL-3B24W	11.75
GL-3BP1A	16.50
GL-3C23	11.98
GL-3KP1	16.70
GL-3MP1	22.50
GL-3UP1	27.00
3X2500A3	198.00
GL-4B32	12.00
GL-4C21	15.75
GL-4D21/ 4-125A	30.25
GL-4X150A	41.50
GL-4-250A/ 5D22	41.25
4-1000A	135.00
GL-5BP1A	22.50
GL-5C21/C6J	26.40
GL-5C24	45.00
GL-5CP1A	27.00
GL-5CP7A	31.40
GL-5FP7A	29.50
GL-5FP14	28.80
GL-5FP14A	27.50
GL-5QP4	49.50
GL-5R4GY†	2.20
GL-5UP1	19.65
GL-6AJ5†	3.50
GL-6AN5	3.65
GL-6AS6†	3.46
GL-6D4	2.85
GL-6J4†	8.05
GL-7BP7A	40.00
GL-7C29	130.00
GL-7D21	320.00

TUBE TYPE	NET EA.
GL-7UP7	$ 49.50
GL-7UP25	70.00
7VPI	22.50
GL-8D21	1300.00
GL-9C24	570.00
GL-10KP7	55.00
GL-10SP4	65.00
GL-10UP14	49.60
GL-10UP14A	55.75
GL-12AY7†	3.00
GL-12DP7A	61.85
GL-12SP7	47.40
GL-12SP7B	49.50
GL-17ADP7	160.00
PJ-22	2.50
25C6G†	3.20
FG-27A	26.00
GL-35T	10.50
FG-81A	18.00
FG-97	25.00
FG-98A	27.00
GL-100TH	18.25
FG-105	48.00
GL-146	27.00
GL-152	30.00
FG-154	47.50
GL-159	160.00
FG-166	160.00
GL-169	135.00
FG-172	65.00
GL-203A	13.75
GL-207	240.00
GL-211	13.75
GL-217C	21.17
GL-218	225.00
GL-242-C	15.50
FP-265	56.50
GL-266B	218.50
FG-280	62.00
FP-285	22.00
GL-393A	11.98
FP-400	41.20
GL-411	310.00
GL-414	120.00
GL-441	4.50
GL-473	165.00
GL-502A	1.85
GL-575A	21.00
GL-592	30.25
GL-627	22.00
GL-672A	35.00
GL-673	21.00
GL-678	47.00
GL-800	11.50
GL-801A	5.60
GL-802	5.15
GL-803	24.30
GL-805	13.50
GL-806	34.25
GL-807	2.50
GL-809	4.20
GL-810	16.25
GL-811A	5.00
GL-812A	5.00
GL-813	18.00
GL-814	14.25
GL-815	12.35
GL-816	1.65
GL-826	12.50
GL-828	15.00
GL-829B	16.25
GL-830B	11.50
GL-832A	12.90
GL-833A	49.50
GL-835	19.50
GL-836	9.00
GL-837	5.80
GL-838	13.75
GL-842	4.05
GL-843	2.60

TUBE TYPE	NET EA.
GL-845	$ 13.75
GL-849	138.00
GL-851	340.00
GL-857B	218.50
GL-862A	1322.00
GL-866A	2.45
GL-868/ PJ-23	2.85
GL-869B	138.00
GL-870A	1475.00
GL-872A/ 872	8.20
GL-874	3.10
GL-880	510.00
GL-884	1.85
GL-885	2.00
GL-889A	210.00
GL-889RA	*295.00
GL-891	237.00
GL-891R	*385.00
GL-892	237.00
GL-892R	*385.00
GL-893A	664.00
GL-893AR	*1212.00
GL-895	950.00
GL-895R	*1300.00
GL-898A	1322.00
GL-914A	145.00
GL-917	4.65
GL-918	3.10
GL-919	4.65
GL-920	4.15
GL-921	2.95
GL-922	2.60
GL-923	2.35
GL-927	3.00
GL-929	1.50
GL-930	2.45
GL-931A	8.60
GL-935	7.80
GL-955†	3.60
GL-956†	7.00
GL-957†	4.90
GL-1000T	137.50
GL-1612	3.00
GL-1613	2.45
GL-1614	2.55
GL-1616	8.65
GL-1619	2.50
GL-1620	6.25
GL-1621	1.95
GL-1622	2.50
GL-1623	4.05
GL-1624	4.00
GL-1625	2.65
GL-1629	1.40
GL-1633†	1.95
GL-1850A	565.00
GL-2050	1.85
GL-5513	275.00
GL-5516	7.95
GL-5518	525.00
GL-5544	27.00
GL-5545	35.00
GL-5549	370.00
GL-5550/ GL-415	41.00
GL-5551/ FG-271	65.00
GL-5552/ FG-235A	99.00
GL-5553/ FG-258A	216.00
GL-5554/ FG-259B	163.50
GL-5555/ FG-238B	316.00
GL-5556/ PJ-8	13.50
GL-5557/ FG-17	8.50
GL-5558/ FG-32	15.50
GL-5559/ FG-57	22.00
GL-5560/ FG-95	28.00
GL-5561/ FG-104	40.00

TUBE TYPE	NET EA.
GL-5664/ GL-507	$870.00
GL-5581	2.25
GL-5588	120.00
GL-5593	87.50
GL-5610	2.25
GL-5620/ FB-50	14.50
GL-5621/B6	13.50
GL-5622/B25	12.50
GL-5623/B47	13.50
GL-5624/B46	13.50
GL-5625/KC4	225.00
GL-5626/ FA-15	49.50
GL-5627/ FA-6	47.00
GL-5628/ FA-13	26.00
GL-5629/ FA-14	21.00
GL-5630	1000.00
GL-5632	12.15
GL-5636	13.50
GL-5651	2.24
GL-5654†★	2.90
GL-5662	3.20
GL-5663	1.90
GL-5670†★	4.85
GL-5674	100.00
GL-5681	1780.00
GL-5686†★	3.30
GL-5687	4.50
GL-5691	8.45
GL-5692	8.15
GL-5693	6.40
GL-5696	1.90
GL-5718★	6.85
GL-5719★	6.85
GL-5720/ FG-33	23.00
GL-5725†★	3.25
GL-5726†★	1.45
GL-5727★	2.70
GL-5728/ FG-67	26.00
GL-5736	160.00
GL-5739/ FP-62	49.50
GL-5740/ FP-54	88.00
GL-5741/ FP-85A	85.00
GL-5742/ PJ-7	25.00
GL-5743/ PJ-21	25.00
GL-5749†★	2.00
GL-5750†★	2.50
GL-5751†★	3.35
GL-5762	195.00
GL-5763	1.93
GL-5779	80.00
GL-5797★	13.50
GL-5798★	17.45
GL-5814A†★	3.25
GL-5820	1200.00
GL-5822	116.00
GL-5824	3.35
GL-5830/ FG-41	200.00
GL-5840★	10.30
GL-5844	2.20
GL-5855	70.00
GL-5879	1.75
GL-5881	3.50
GL-5894	24.75
GL-5896A★	8.50

TUBE TYPE	NET EA.
GL-5899★	$ 10.95
GL-5902★	12.60
GL-5915A	1.45
GL-5921	40.00
GL-5922	40.00
GL-5948	490.00
GL-5963	1.40
GL-5964	1.50
GL-5965	1.88
GL-5973	310.00
GL-6005†★	3.55
GL-6011	13.00
GL-6017	340.00
GL-6019	620.00
GL-6021A★	11.05
GL-6039	620.00
GL-6044	56.00
GL-6046	1.15
GL-6072†★	4.55
GL-6087†★	5.25
GL-6096/CT†	4.95
GL-6111A★	12.55
GL-6112A★	12.20
GL-6130	10.50
GL-6134†★	5.45
GL-6135†★	1.90
GL-6136†★	2.20
GL-6137†★	2.20
GL-6146	4.90
GL-6159	4.90
GL-6161	115.00
GL-6166	905.00
GL-6181	835.00
GL-6182	2100.00
GL-6183	680.00
GL-6201†★	4.15
GL-6202†★	3.17
GL-6203†★	3.97
GL-6211	1.88
GL-6215	3.00
GL-6228/506	3300.00
GL-6237	10,000
GL-6238	10,000
GL-6239	10,000
GL-6240	10,000
GL-6241	10,000
GL-6242	10,000
GL-6251	2200.00
GL-6265†★	4.00
GL-6283	155.00
GL-6299	56.00
GL-6301	120.00
GL-6346	70.75
GL-6347	104.75
GL-6348	221.75
GL-6386†★	7.15
GL-6442	37.50
GL-6452	93.00
GL-6463	2.25
GL-6485†	1.60
GL-6504	2100.00
GL-6509	420.00
GL-6512	194.00
GL-6513	347.00
GL-6574	401.00
GL-6515	938.00
GL-8000	14.50
GL-8002	160.00
GL-8002R	190.00
GL-8005	8.55
GL-8008	8.20
GL-8013A	10.30
GL-8020	24.00
GL-8025A	12.35
GL-9001†	4.00
GL-9002†	2.80
GL-9003†	3.80
GL-9004†	2.30
GL-9005†	3.45

RENEWAL PRICE, FORCED AIR TUBES

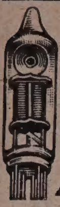
Tube Type	Net Each	†† Crate Credit
GL-889R-A	$ 275.00	NONE
GL-891-R	365.00	$10.00
GL-892-R	365.00	10.00
GL-893A-R	1102.00	40.00
GL-895-R	1235.00	35.00

*Price includes tube and radiator for forced air cooling. ††In good condition.

†Federal Excise Tax is included in price shown.

★High reliability. "5 STAR" tubes.

Sylvania Special Purpose Tubes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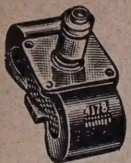
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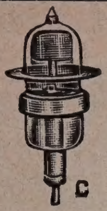
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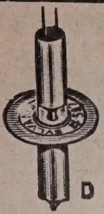
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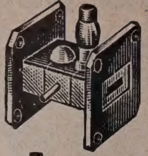
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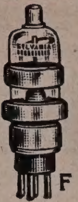
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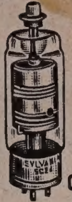
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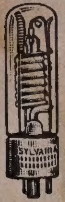
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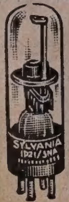
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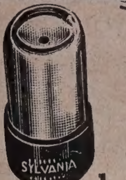
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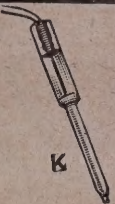
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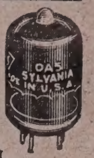
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SUBMINIATURE TUBES

DIODES

Syl. No.	Description	Use	Net Each
5641	Sgle. Diode	½-waverect.	$7.50
5647	UHF 1-Diode	Detector*	7.50
6110	UHF 2-Diodes	Detector*	13.00

*Or ½-wave rectifier.

SPECIAL PURPOSE TYPES

5643	Tetr. Thyr'n	Relay Tube	10.60
5644	Cold Cath. Di.	V.R.	12.25

TRIODES

5718	UHF Med. Mu	Amplifier†	$6.85
5719	High Mu	Amplifier	6.85
5977	Medium Mu	Amplifier	8,15
5987	Low Mu, Pwr.	Amplifier	11.50
6021	Medium Mu*	Amplifier	11.90
6111	Medium Mu*	Amplifier	12.55
6112	High Mu*	Amplifier	12.00

*Double triode. †Or UHF Oscillator.

PENTODES

5636	UHF Pentode	Amplifier*	13.30
5639	Video Pent.	Amplifier	11.50
5840	UHF Sharp C-O	Amplifier	8.90
5899	UHF Semi-Rem.	Amplifier	10.95
5902	Audio Bm. Pwr.	Pwr.Amp†	12.60
6205	UHF Sharp C-O	**	11.00
6206	UHF Semi-Rem.	***	11.50

*Or mixer. †1-tube, Class A. **Identical to to 5840 except for external suppressor. grid connection. ***Identical to 5899 except for external suppressor grid con.

MAGNETRONS—FIG. B

These magnetrons operate in the .SHF band at peak power levels ranging from 7 to 300kw and at average power ranging from 14 to 300 watts. Frequency range, except Type 4J78, 9345-9405mc; Type 4J78, 9003-9168mc. All are supplied with magnet. Write for Bulletin EC-37C.

Syl. No.	Pulsed Power Out (kw)	Average Power Out (w)	Net Each
2J42	7-14	14	$111.00
2J55	40-50	40	143.00
4J50	300	225	306.00
4J52	65-120	65	322.00

ROCKET TUBES—FIG. C

Sylvania rocket tubes are planar-electrode disc-seal triodes for use as oscillators and amplifiers at frequencies up to 3300mc. Design permits broad band operation.

Type 2C36—Pulse-modulated oscillator for frequencies to 1750 mc. Net Each **$47.50**

Type 2C37—C.W. Oscillator up to 3300 mc. Plate disc is flat, grid disc is folded. Net Each **$47.50**

Type 6BA4—UHF-TV low noise RF amplifier. Net Each **$16.00**

Type 5764—CW or pulse-modulated oscillator for use to 3300 mc. Net Each **$73.25**

Type 5765—C.W. Oscillator without external feedback from 900-2900 mc. Net Each **$73.25**

Type 5767—C.W. Oscillator for use up to 3300 mc. Both discs folded. Net. **$73.25**

Type 5768—C.W. amplifier-multiplier up to 3000 mc. Net Each **$51.25**

Type 6018—Pulse-modulated oscillator to 1200 mc. Net Each **$73.25**

Type 5675—Med. mu CW oscillator, amplifier or freq. mult. to 3000 mc. Net Each **$13.55**

Type 6503—Ruggedized higher power 2C37 .... **Write for Price**

Write for Bulletin ES-4810.

PENCIL TUBES—FIG. D

Type 5794—Intended for use at 1680 mc as a C.W. oscillator. Special 5.2 volt heater. Net Each **$10.95**

CW Osc., ampl. or freq. mult. to 1700 mc.

Type 5876—High mu. Net Each. **$13.55**

Type 6263—High power low mu. Net Each **20.00**

Type 6264—High power medium mu. Net Each **20.00**

TR'S AND ATR'S—FIG. E

Syl. Type	Frequency Range (mc)	Insertion Loss (db)	Net Each
1B24A	8490-9600	.85-1.50	$ 23.75
1B40	1045-1155	1.0	5.10
1B63A	8490-9578† 8565-9487#	7 max.	23.25

†1.9 VSWR. ‡1.4 VSWR. ‡Arc loss.

Syl. Type	Frequency Range (mc)	Trans. (kw/Min)	Net Each
1B35A	9000-9600	5	$ 7.25

KLYSTRONS—FIG. F

Types 6BL6 and 6BM6 are intended for use as C.W. oscillators. They are of the separate cavity type, with oscillation frequency depending on external tuning. 6BM6A, 5836 and 5837 are suitable for either C.W. or pulsed operation. Write for catalog EC-40B.

Sylvania Type	Frequency Range(mc)	Mode	Net Each
6BL6	1600-4000 2100-4500 3600-6500	1¾ 2¾ 3¾	$59.00
6BM6	550-3800	1¾,2¾,3¾	66.00
6BM6A	550-3800	1¾,2¾,3¾	80.00
5836	1600-4000 2100-4500 3600-5500	1¾ 2¾ 3¾	91.75
5837	550-2300 1100-3000 1500-3800	1¾ 2¾ 3¾	91.75

HYDROGEN THYRATRONS—FIG. G

Serve as drivers for pulsing magnetrons and other oscillators, and as high-speed switches. 6μsec. pulse width.

Syl. Type	Pk. Forward Anode		Av. Ma.	Net Each
	Volts	Amps		
4C35	8kv max	90 max	100	20,25
5C22	16kv max	325 max	200	35.25

FLASH TUBES—FIG. H

These are "electronic photoflash" tubes of the gas-discharge type, widely-used for high-speed press and studio "single-flash" photography. Light is blue-white for daylight color film. Life is over 30,000 flashes.

Syl. Type	Oper. Volts	Flash Rate	Peak Light (lumens)	Net Each
R4330	2250	*	12,000,000	15.35

*6 flashes/min. max. @ 100 watt-sec. flash.

STROBOTRONS—FIG. I

Employed in visual (and sometimes photographic) examination of rotating and reciprocating machinery.

Syl. Type	Anode Volts	Dis. Cap.	Repetition Rate	Net Each
1D21/ SN4	300 max.	2 μf max.	240 p.p.s. max.	$ 6.50
S413	425†	2 μf	100 p.p.s.	13.80
SA-309	425†	1 μf#	100 p.p.s. max.	7.50

†Minimum; 600 v. max. #Dissipation shall never exceed 3.5 w.

MISCELLANEOUS TYPES

Syl. Type	Description	Net Each
OA5	Trigger-tube (**Fig. L**).	$ 5.40
6476	Counter tube, 4 kc max. prr. 10-output cold cathode	22.25
6483	Trigger tune, cold cathode	3.85

GLOW MODULATOR TUBES—FIG. J

Syl. Type	Oper Ma.	Oper Volts	Mod. Freq. Range (cps)	Net Each
1B59/ R1130B	5-35	150	15-15,000	17.65
R1131C	3-25	150	15-15,000	17.65

GAS DISCHARGE TUBE—FIG. K

Sylvania Pirani Tube, Type R1111 is convenient for measuring low gas pressures directly. Useful pressure range is from 1 to 1000 microns. Extremely useful as a pressure gauge and leak detector in evacuating apparatus or in automatic pressure control and recording equipment. Nonex glass envelope, 8″ max. length, 1$\frac{1}{16}$″ max. dia. Terminal connections unpolarized. 6.6 ohms resistance cold, 15.5-17.0 ohms hot—evacuated tube, 100 μa current. Operating voltage, 1.5 volts.

Sylvania Type R1111—Net Each. . **$6.75**

Sylvania Type R1111M—Matched pair of Type R1111. Per Pair, Net...... **$16.15**

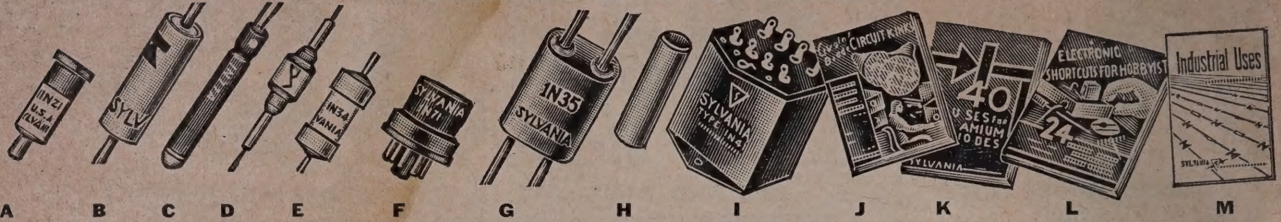
POWER AMPLIFIERS, OSCILLATORS, PHOTO AND SPECIAL TYPES

Sylvania Type	Net Each	Syl. Type	Net Each
0A2	$1.26	872A	8.20
0A3(VR75)	1.27	884	1.85
0A4G	1.48	885	2.00
0B2	1.39	921	2.65
0B3(VR90)	1.65	922	2.60
0C3(VR105)	1.27	929	1.50
0D3(VR150)	1.27	931A	8.60
1C8	1.40	1222	2.45
1P39	1.75	1229	6.40
1S6	1.40	1247	6.00
1V5	1.40	1273	1.50
2B5	3.50	1280	1.50
2D21	2.00	2050	1.85
2E24*	4.65	5636	13.30
2E26*	3.85	5639	11.50
2E30*	2.60	5641	7.50
3A4	1.20	5642	1.35
3A5	1.30	5643	10.60
5R4GY	1.90	5644	12.25
5U4WG/5931	1.50	5647	7.50
6AD4	3.50	5654/	3.00
6AJ5	3.50	6AK5W	
6AK4	2.85	5679	1.35
6AN6	3.75	5718	6.85
6AS6	3.46	5719	6.85
6AZ5	2.61	5722	6.40
6BA5	4.45	5726/	1.45
6BF7W	4.45	6AL5W	
6D4	2.85	5749/	2.00
6J4	6.22	6BA6W	
6SJ7WGT	2.45	5751	[illegible].35
6SL7WGT	3.00	5763*	1.93
6SN7WGT	2.75	5814A	3.25
6V6GTY	1.08	5840	8.90
6X5WGT	2.00	5845	9.25
7AK7	6.30	5896	8.50
26D6	2.85	5899	10.95
28D7	2.85	5902	12.60
28D7W	9.75	5977	8.15
801A*	5.60	5987	11.50
807*	2.50	6021	11.90
807Y*	4.90	6110	13.00
810*	16.25	6111	12.55
811A*	5.00	6112	12.00
812A*	5.00	6146*	4.90
813*	18.00	6205	11.00
815*	12.35	6206	11.50
816	1.65	9001	4.00
829B	16.25	9002	2.85
832A*	12.90	9003	3.80
866A	2.45	X6030	3.50

*Transmitting Types.

Crystal Diodes, Test Equipment

SYLVANIA CRYSTAL DIODES



MICROWAVE CRYSTAL DIODES (SILICON CARTRIDGE)

Sylvania No.	Fig.	Description	Net Each
1N21A	A	3000mc Mixer..	$ 2.20
1N21B	A	3000mc Mixer..	2.90
1N21BM	A	1N21B Matched Pair...........	10.05
1N21BR	A	1N21B Rev. Pol.	5.75
1N21C	A	....	5.05
1N23A	A	10,000mc Mixer.	1.10
1N23B	A	10,000mc Mixer.	1.85
1N23BM	A	1N23B Matched Pair...........	4.30
1N23BR	A	1N23B Rev. Pol.	4.30
1N23CR	A	1N23C Rev. Pol.	9.40
1N23BMR	...	1N23B Matched with 1N23BR..	10.80
1N23C	A	....	3.65
1N23CMR	...	1N23C Matched with 1N23CR..	25.90
1N25	A	1,000mc High Burnout Mixer.	5.75
1N26	A	24,000mc Mixer.	10.10
1N31	I	10,000mc Detector (Coax Type)	7.20
1N32	A	3000mc Detector	14.50
1N53	...	35,000 mc Det..	43.15
1N53M	...	1N53 Matched Pair...........	104.95
1N76	I	9000mc Mixer (Coaxial Type).	4.30
1N78	I	16,000mc Mixer (Coaxial Type).	10.80
1N79	A	UHF Inst. Rect.	2.50
1N82	D	UHF Mixer Diode...........	.90
1N82A	D	UHF Mixer Diode...........	1.00

GERMANIUM CRYSTAL DIODES

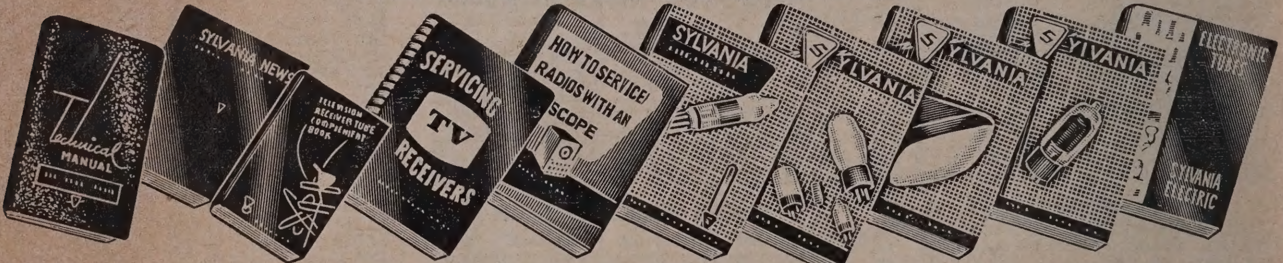
Syl. No.	Fig.	Description	Net Each
1N34	E	G.P. Diode (Ceram.)	$ 0.75
1N34A	D	G.P. Diode (Glass).	.75
1N35	G	Matched 1N34's (2)	2.20
1N38	B	100v. Diode (Cer.).	1.30
1N38A	D	100v. Diode (Glass).	1.30
1N39	B	200v. Diode, Back V.	3.95
1N40	F	Varistor—Plug In..	12.25
1N41	I	Varistor—Lug Type.	11.50
1N42	F	Varistor (1N38's)...	17.25
1N54	B	Hi-R. Diode (Cer.)..	1.10
1N54A	D	1N54, Glass........	1.05
1N55	B	150 v. Diode (Cer.).	2.20
1N55A	D	1N55, Glass........	2.10
1N56	B	High Conduction Diode (Ceramic)......	1.05
1N56A	D	1N56, Glass........	1.10
1N58	B	100 v. Diode (Cer.).	1.30
1N58A	D	1N58, Glass........	1.30
1N60	B	TV Video Detector.	.50
1N71	F	Varistor, Lo-Z......	7.20
1N77A	C	Photodiode........	36.75
1N105	E	1N60 Less Pigtails..	.50
1N109	E	Harmonic Generator	.50
1N111	D	Computer Diode....	1.30
1N112	D	Computer Diode....	1.05
1N113	D	Computer Diode....	1.65
1N114	D	Computer Diode....	1.05
1N115	D	Computer Diode....	.95
1N132	E	Video Detector.....	.50
1N193	D	Hi-temp. Comp. Diode................	3.90
1N194	D	Hi-temp. Comp. Diode................	4.30
1N195	D	Hi-temp. Comp. Diode................	4.85
1N196	D	Hi-temp. Comp. Diode, Short Recov. Time..............	5.30

APPLICATION LITERATURE

These books comprise the most complete collection of germanium diode applications ever published. "40 Uses For Germanium Diodes" (**Fig. K**) covers applications in receiver, transmitter instruments and control circuits. "Electronics Shortcuts For Hobbyists" (**Fig. L**) describes applications in all types of devices of interest to the home hobbyist and electrica experimenter. "Crystal Diode Circuit Kinks" (**Fig. J**) describes many new applications of germanium diode in crystal, meters, TV receivers and electrical experiments. "Industrial Uses for Germanium Crystals" (**Fig. M**).

For any one of the four books, Price Each.................... **25c**

SYLVANIA TECHNICAL LITERATURE



TECHNICAL MANUAL

No. 202—Complete data on Sylvania tubes. New style binder with metal multi-ring device permits easy insertion of new data sheets at no additional cost. Price Each................ **$2.00**

TELEVISION RECEIVER TUBE COMPLEMENT BOOK

No. 204—The most complete, authentic book of its type ever published. Gives complete tube complement of all current television receiver models. Includes list of manufacturer's names and addresses, replacement charts and usage table. An absolute must for TV servicemen. Price Each.......................... **75c**

SERVICE HINTS BOOKLET

No. 208—Up-to-date service tips on many makes of receivers. Advice on unusual service problems. Price Each.......... **FREE**

RADIO AND TV TUBES CHARACTERISTICS FOLDER

No. 211—Characteristics of Sylvania tubes and panel lamps, with tube base views. Price Each.......................... **FREE**

SERVICING TV RECEIVERS

No. 205—Contains page after page of handy reference for the causes and corrections for faulty reception in TV receiving sets. Profusely illustrated, complete with circuit diagrams that save guessing and suggestions that save time. Handy pocket size, 5" x 7". Price Each.............................. **$2.00**

TRANSMITTING TUBES CHARACTERISTICS FOLDER

No. 213—Characteristics of Sylvania tubes used in amateur and commercial transmitters with tube and base diagrams..... **FREE**

TELEVISION TUBES CHARACTERISTICS FOLDER

No. 216—Characteristics of television picture tubes and general purpose cathode ray tubes. With base diagrams.......... **FREE**

ELECTRONIC TUBES FOLDER

No. 217—Characteristics and descriptions of tubes used in electronics devices. Also shows complete line of Sylvania test equipment. Price Each.. **FREE**

HOW TO SERVICE RADIOS WITH AN OSCILLOSCOPE

No. 218—Complete book that gives you step-by-step instructions for using the oscilloscope in testing and servicing radio receivers, audio amplifiers and transmitters. Price Each.............. **$1.00**

TECHNICAL SECTION BINDER (VOL. 4)

No. 220—Containing all back issues of Technical Sections from May, 1953. Price Each.. **$1.00**
Vol. 1 (May, '35-Jan., '41), Vol. 2 (Jan., '41-Jan., '46), Vol. 3 (Jan., '46-May, '53). Any volume, Price Each........... **$1.00**

RADIO TUBE HINTS BOOK

No. 226—A condensed reference book of generally helpful information and data on radio tubes. Price Each.............. **FREE**

RADIO CIRCUITS HINTS BOOK

No. 227—Handy reference on radio circuits, characteristics. Problems and quick solutions. Price Each................ **FREE**

RADIO EQUIPMENT HINTS BOOK

No. 228—The most complete, handy booklet ever published on radio testing equipment—how to build and use it. Price... **FREE**

GERMANIUM DIODE APPLICATIONS LITERATURE

These books comprise the most complete collection of germanium diode applications ever published. "40 Uses for Germanium Diodes" (**No. 240**) covers applications in receiver, transmitter instruments and control circuits. "Electronics Shortcuts for Hobbyists" (**No. 241**) describes applications in all types of devices of interest to the home hobbyist, "screw driver mechanic" and electrica experimenter. "Crystal Diode Circuit Kinks" (**No. 239**) describes many new applications of germanium diodes in crystal meters, TV receivers, and electrical experiments.
For any one of the three books, Price Each.............. **25c**

SUBMINIATURE TUBE CHARACTERISTICS FOLDER

No. 221—Characteristics of Sylvania Subminiature tubes with tube and base diagrams. Price Each.................. **FREE**

SYLVANIA NEWS

No. 305—A publication issued regularly for radio service dealers and engineers comprising three sections. General Section, Merchandising Section and Technical Section (for which folders are available as described above). Price Each................ **FREE**

Special Purpose Tubes

CETRON PHOTO AND RECTIFIER TUBES

STANDARD RED SENSITIVE GAS-FILLED, CLASS C

Tube Type	Replaces	Net Each
CE-1C	868, 918, PJ-23 etc.	$4.10
CE-2C	WL-735	5.50
CE-3C	WL-728, WE-3A	5.50
CE-4C	....	5.50
CE-21C	920	5.60
CE-22C	1P41	4.00
CE-23C	923	2.90
CE-25C	927	5.50
CE-30C	930	2.60
CE-36C	....	5.50

SPECIAL RED SENSITIVE GAS-FILLED

Tube Type	Re-places	Net Each, Class A/B	C	D
CE-5	WL-739	$12.00	$ 6.50	$ 3.50
CE-7	....	10.00	6.00	3.30
CE-8	....	10.00	6.00	3.30
CE-10	....	60.00	40.00	25.00
CE-15	....	50.00	30.00	22.00
CE-18	....	20.00	12.00	7.00
CE-26	....	8.50	5.50	3.30
CE-54	....	....	5.00	2.50
CE-55	924	....	5.00	2.25

RED SENSITIVE—VACUUM

CE-1V	PJ-22	$ 8.50	$ 4.20	$ 2.60
CE-2V	....	10.00	6.00	3.30
CE-4V	....	10.00	6.00	3.65
CE-11V	917	12.00	5.00	3.00
CE-13V	919	12.00	5.00	3.00
CE-25V	....	12.00	5.50	3.00
CE-30V	925	8.50	2.80	1.85
CE-31V	919	12.00	5.00	3.00

BLUE SENSITIVE—GAS-FILLED

Tube Type	Replaces	Net Each Class Q	Net Each Class R
CE-59	5581	$9.00	$4.40
CE-64	5583	10.00	3.60
CE-73	....	12.00	4.30
CE-74	....	12.00	6.50
CE-76	....	12.00	4.50
CE-83	....	16.00	10.00
CE-91	1P37	10.00	3.30
CE-97	....	16.00	10.00

BLUE SENSITIVE—VACUUM

CE-29	929, 1PS9	$ 9.00	$2.80
CE-34	934	10.00	4.50
CE-61	GL-441	10.00	6.60
CE-99	....	16.00	6.50

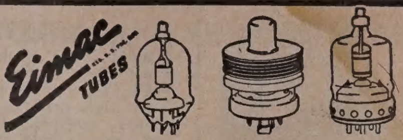
RECTIFIER TUBES

Type CE-	Gas/ Vac.	Rectifi-cation	Replaces	Net Each
200	Merc.	Full W.	CE-200	$7.75
201A	Merc.	Full W.	CE-200	8.00
202B	Merc.	Half W.	....	35.00
203	Merc.	Half W.	....	11.60
205	Merc.	Half W.	2RA5	12.60
206	Merc.	Half W.	2RA6	10.00
210A	Merc.*	Full W.	CE-210	7.75
211A	Merc.*	Full W.	CE-211	8.00
213A	Merc.	Half W.	2RA3	7.50
220	Hi-Vac	Half W.	CEQ-72	8.97
221	Xenon	Full W.	4B25	19.00
225	Argon	Half W.	....	6.00
226	Argon	Half W.	R6A	6.00
230	Hi-Vac	Half W.	3B24	13.20
235A	Argon	Half W.	R15A	10.75
243	Merc.*	Half W.	CE-213	7.50

*And gas.

GRID CONTROL RECTIFIERS

Type CE-	Description	Replaces	Net Each
02	Mercury Vapor	722A	17.00
03	Gas-Filled	C1B/3C31	13.25
04	Mercury Vapor	....	74.75
05	Gas-Filled	....	28.00
09	Mercury Vapor	FG17	7.90
11	Mercury & Gas	3C23	15.75
93A	Mercury & Gas	....	15.75
23B	Mercury & Gas	....	15.75
20	Mercury & Gas	....	14.20
22	Mercury & Gas	....	21.65
29	Xenon. Hi-Freq.	....	57.50
30	Xenon. Hi-Freq.	....	50.00
31	Xenon. Hi-Freq.	....	95.00



SPECIAL PURPOSE TUBES

TETRODES

Eimac No.	Plate Dissipa-tion Watts	Plate Volt-age	Net Each
4-65A	65	3,000	$ 20.00
4-125A	125	3,000	30.25
4X150A*	150	1,000	38.95
4X150G	150	1,250	54.00
4-250A	250	4,000	41.25
4-400A	400	4,000	60.50
4X500A*	500	4,000	121.00
4X500F*	500	4,000	93.50
4-1000A	1000	6,000	132.00

TRIODES

25T	25	2,000	$ 11.00
35T	50	2,000	12.00
35TG	50	2,000	16.00
75TH	75	3,000	16.00
75TL	75	3,000	16.00
2C39A*	100	1,000	22.50
100TH	100	3,000	18.25
100TL	100	3,000	18.25
152TH	150	3,000	32.00
152TL	150	3,000	32.00
250TH	250	4,000	33.00
250TL	250	4,000	33.00
304TH	300	3,000	60.50
304TL	300	3,000	60.50
450TH	450	6,000	77.00
450TL	450	6,000	77.00
750TL	750	10,000	137.50
592/3-200A3	200	3,500	30.25
1000T	1,000	7,500	137.50
1500T	1,500	8,000	220.00
2000T	2,000	8,000	275.00
3W10000A3†	10,000	5,000	957.00
3X2500A3*	2,500	6,000	198.00
3X2500F3*	2,500	6,000	198.00

*Ext. Anode requiring forced-air cooling.
†Water cooled.

PENTODE

Eimac No.	Plate Dissipa-tion Watts	Plate Volt-age	Net Each
4E27A/ 5-125B	125	4,000	$35.75

MERCURY VAPOR RECTIFIERS

Eimac No.	Fil. Volts	Fil. Cur.	Inv. Volts	Net Each
866A	2.5	5.0 amp.	10,000	$ 2.45
RX21A	2.5	10 amp.	11,000	9.00
872A	5.0	7.5 amp.	10,000	8.20
KY21A	2.5	10 amp.	11,000	13.25

HIGH VACUUM RECTIFIERS

Eimac No.	Fil. Volts	Fil. Cur.	Inv, Volts	Net Each
2-01C	5.3	0.4 amp.	1,000	$15.25
2-25A	6.3	3.0 amp.	25,000	11.00
2-50A	5.0	4.0 amp.	30,000	13.75
2-240A	7.5	12.0 amp.	40,000	40.00
2-2000A	10.0	25.0 amp.	75,000	214.50
253	5.0	10.0 amp.	15,000	20.50
8020	5.0	6.5 amp.	40,000	15.00
2-150D	5.0	13 amp.	30,000	19.25
250-R	5.0	10.5 amp.	60,000	22.00

HEAT DISSIPATING CONNECTORS

Eimac No.	Hole Dia.	Net Each	Eimac No.	Hole Dia.	Net Each
HR-1	.052	$0.60	HR-6	.360	$0.80
HR-2	.0625	.60	HR-7	.125	1.60
HR-3	.070	.60	HR-8	.570	1.60
HR-4	.1015	.80	HR-9	.570	3.00
HR-5	.125	.80	HR-10	.....	1.60

FIXED VACUUM CAPACITORS

Eimac No.	Cap. μμfd	Max. Peak Volts	Max. RMS Amps.	Net Each
VC6-20	6	20,000	28	$15.00
VC6-32	6	32,000	28	17.25
VC12-20	12	20,000	28	16.50
VC12-32	12	32,000	28	20.00
VC25-20	25	20,000	28	20.00
VC25-32	25	32,000	28	23.25
VC50-20	50	20,000	28	24.25
VC50-32	50	32,000	28	27.50

TUNG-SOL TUBES

5881 Beam Power Amplifier

RETMA T-11 glass envelope. Completely interchangeable with 6L6. Tremendous overload capacity. Plate dis., 23 watts; plate v., 360 v.; screen dis., 3 watts; screen v., 270 v.; filament 6.3 v.

5881 Beam Power Amplifier—Net $3.50

5687 Miniature Twin Triode

Use as power amplifier, cw or pulse oscillator, or as a cathode follower. Useful in balanced circuits, etc. Plate dis. (each), 4.2 watts; plate v., 300 v.; heater-cath. v., 90 v., amp. factor, 18 (Cl. A[1]).

5687 Miniature Twin Triode—Net $4.50

6AR6 Beam Pentode

Use for power amplifier. Filament v., 6.3; plate v., 300 plate current, 58 ma.; screen current, 4 ma.; amplification factor, 95.

6AR6 Beam Pentode—
Net Each.................... $5.75

6SU7GTY Double Triode

Double triode amplifier. Filament v., 6.3; plate v., 250 v.; plate current, 2.3 ma.; amplification factor, 70.

6SU7GTY Double Triode—Net... $4.25

NATIONAL ELECTRONICS INDUSTRIAL TUBES

THYRATRONS

Nat. Elec. Type	Net Each
3C23	$11.98
323B	13.25
393A	13.25
FG-17/5557/NL-715	8.50
NL-710/6011	12.10
NL-714	8.50
NL-716	9.60
NL-740	19.40
NL-740L	19.90
NL-740P	20.90
NL-741	19.40
NL-760	29.30
NL-760L	29.80

FULL-WAVE RECTIFIERS

NL-600	$ 8.20
NL-604	8.90
NL-604L	9.40
NL-606	16.60
NL-606L	17.10

HALF-WAVE RECTIFIERS

NL-614	$ 8.60
NL-615	7.50
NL-616	10.00
NL-617	11.60
NL-618	11.05
NL-618P	12.40
NL-623	11.60
NL-625	29.00
NL-627	35.00
NL-635	11.05
NL-635L	11.55
NL-643	13.50
NL-649/5834	7.75
NL-653/5835	11.75
NL-5558/FG-32	15.50

TAYLOR TUBES

TRIODES

Tube Type	Plate Dis. Watts	Plate Volts	Net Each
T-40	40	1500	$7.70
T-55	55	1500	9.50
T-200	200	2500	25.00
T-60	60	1500	11.50
T-300	300	3000	30.00
810	125	2250	14.50
845	100	1230	13.75

HALF WAVE RECTIFIERS

Tube Type	Fil. Volts	Fil. Cur.	Inv. Volts	Net Each
866JR	2.5	2.5	5000	$ 1.65
866A	2.5	5.0	10000	1.95
249C	2.5	7.5	10000	9.00
873	5.0	6.75	3000	17.25
872A	5.0	6.75	10000	8.20
8008	5.0	6.75	10000	8.20
875A	5.0	10.0	15000	21.00

TRIODES—CLASS B AUDIO

Tube Type	Plate Volts	Output Watts	Net Each
TZ-20	800-1000	70-175	$4.00
TZ-40	1250-1500	225-250	7.70
805	1250-1500	300-370	13.50

Tubes, Rectifiers, Transistors

INTERNATIONAL RECTIFIERS

INDUSTRIAL AND POWER TYPE

SELENIUM RECTIFIERS

Typical uses for these rectifiers include heavy duty plating, general purpose power supplies, cathodic protection, battery charges, etc. Rated for Ambient Temperature of 35° C.

I.R. Type	D.C. Output DC Volts	D.C. Output DC Amp.	Max. Input AC Volts	Dimensions (Inches) Ht.	Dimensions (Inches) Wdth	Dimensions (Inches) Dpth. ± 1/16"	Dimensions (Inches) Stud	Net Price
JD-500G	0–10	0.4	13/26	1¼	1¼	1⅛	8–32	$ 2.52
JD-501G		0.7	13/26	1½	1½	1⅜	8–32	2.57
JD-3011		1.5	13/26	2	2	1⅜	¼–20	3.20
JD-503G		3.0	13/26	3	3	2⅛	⅜–16	4.20
JD-504G		6.5	13/26	4⅜	4⅜	2⅛	⅜–16	5.30
JD-505G		9.5	13/26	6	5	2⅛	⅜–16	8.58
JD-506G		15.0	13/26	7¼	6¼	2⅛	⅜–16	9.79
JD-507G	0–20	0.4	26	1¼	1¼	1½	8–32	3.41
JD-508G		0.7	26	1½	1½	1½	8–32	3.53
JD-3022		1.5	26	2	2	1⅞	¼–20	4.60
JD-510G		3.0	26	3	3	2⅝	⅜–16	6.20
JD-511G		6.5	26	4⅜	4⅜	2⅝	⅜–16	8.10
JD-512G		9.5	26	6	5	3⅜	⅜–16	13.20
JD-513G		15.0	26	7¼	6¼	3⅜	⅜–16	16.17
JD-514G	0–40	0.4	52	1¼	1¼	2 5/16	8–32	5.17
JD-515G		0.7	52	1½	1½	2 5/16	8–32	5.45
JD-3023		1.5	52	2	2	3	¼–20	7.40
JD-517G		3.0	52	3	3	4 1/16	⅜–16	10.20
JD-518G		6.5	52	4⅜	4⅜	4 1/16	⅜–16	13.70
JD-519G		9.5	52	6	5	5⅝	⅜–16	22.44
JD-520G		15.0	52	7¼	6¼	5⅝	⅜–16	28.93
JD-3012	0–100	0.3	130	1¼	1¼	4 9/16	8–32	10.45
JD-3007		0.6	130	1½	1½	4 9/16	8–32	11.21
JD-3008		1.2	130	2	2	6¼	¼–20	15.80
JD-3009		2.4	130	3	3	8 9/16	⅜–16	22.20
JD-3010		5.25	130	4⅜	4⅜	8 9/16	⅜–16	30.50
JD-3013		8.5	130	6	5	12⅝	⅜–16	50.16
JD-3014		13.0	130	7¼	6¼	12⅝	⅜–16	67.21
JD-3015	0–120	0.3	156	1¼	1¼	5⅜	8–32	12.21
JD-3016		0.6	156	1½	1½	5⅜	8–32	13.13
JD-3017		1.2	156	2	2	7 5/16	¼–20	18.60
JD-3018		2.4	156	3	3	10	⅜–16	26.20
JD-3019		5.25	156	4⅜	4⅜	10	⅜–16	36.10
JD-3020		8.5	156	6	5	15	⅜–16	59.40
JD-3021		13.0	156	7¼	6¼	15	⅜–16	79.99

Rated for Ambient Temperature of 35° C.

SYLVANIA TRANSISTORS

LOW FREQUENCY—HIGH GAIN TYPES

Type 2N34—Junction type p-n-p transistor. Designed for use as a general-purpose transistor amplifier for high gain, low power, low frequency circuits. Particularly useful as an audio amplifier. **Ratings:** Collector voltage, −6 volts; Emitter current, 1 ma; Current amplification factor, 40; Power gain, 40 db. .421" wide x .170" thick. Net Each.......................... $3.15

Type 2N35—For low to medium power use. N-p-n. Gains up to 40 db in grounded emitter circuit. Net Each.......... $2.55

HIGH FREQUENCY TYPES

Type 2N94—3 mc alpha cutoff. Features high gain, high uniformity, low collector capacity and ease of neutralization. Net Each.. $2.85

Type 2N94A—6 mc alpha cutoff. Otherwise as above. Net Each.. $5.05

HIGH POWER—LOW FREQUENCY TYPES

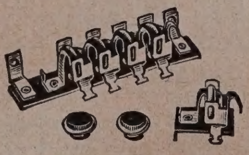
Type 2N68—P-n-p Junction Output Transistor. Provides high power and medium gain for intermediate frequency applications. Collector −25 v. Collector current at 0 output −320 ma. Gives approx. 10 db power gain. 3 watts output in push pull, Class B. Net Each.. $6.50

Type 2N101—Similar to 2N68 without cooling fins. Power dissipation 1 watt. Net Each.......................... $6.50

Type 2N95—N-p-n. Increased power ratings—to 2.5 watts. Use for high current, low voltage applications (6-24 volt power supplies). Net Each.......................... $6.50

Type 2N102—Similar to 2N95 without cooling fins. Power dissipation 1 watt. Net Each.......................... $6.50

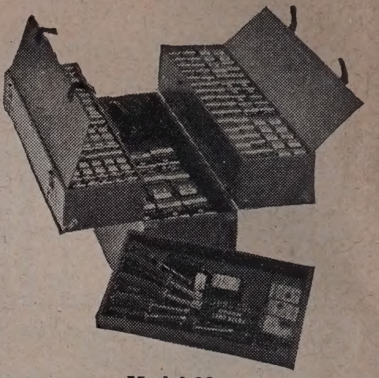
MALLORY BIAS CELLS AND HOLDERS



The Mallory Bias Cell is a small acorn-shaped, self-contained device. The metal container or cup is the negative electrode. The black disc is the positive electrode. Used for biasing the first audio amplifier tube in high gain receivers. Also can be used for initial bias in RF, IF and AVC stages. The no-current potential is accurate to within ±10%.

Mall. No.	Description	Net Each	Mall. No.	Description	Net Each
BC-3	1½ volt cell	30c	BX47	1⅓ v. tabbed	40c
BC-4	BC-3 w/mtg. stud	38c	GB15	Single cell clip.	23c
BC-5	1¾ volt cell	30c	GB16	Double cell clip	23c
BC-6	BC-5 w/mtg. stud	38c	GB17	Clip for BC-3	23c

MASTRA TNT TOTE BOXES



Model 33

Mastra TNT Tube 'n' Tool Tote boxes provide the Serviceman with high quality, low priced cases for carrying tubes, tools and other equipment. The sturdy steel reinforced ¼-in. plywood construction gives them strength to support 350 lbs. Covered with tough, soil-resistant treated leatherette. Inside has stained finish. Drawbolts, rivets and all hardware is nickel plated. All points of stress are reinforced with steel angles for added strength. Engineered so that all tubes and tools are easily available.

TNT MODEL 11—THE "SPECIAL"

Holds 110 Tubes. Provides over 1600 cubic inches of carrying space. Room in the two wings for 45 small tubes and 44 medium tubes. Bottom compartment carries 21 large tubes. Luggage type construction with raised steel corners and durable molded handle. Size: 16½" long x 13½" high x 8" wide.
Mastra TNT No. 11—Shpg. Wt. 8 lbs. Net Each...... $11.95

TNT MODEL 33—THE "DELUXE"

Holds 190 Tubes. 2600 cubic inches of carrying space. Has removable tool tray and special partition for tester. Room in the two wings for 100 small tubes and 60 medium tubes, and the bottom carries 30 large tubes. Designed so that all tubes stand upright for easy identification. Luggage type construction with heavy scuff-proof steel corners, sturdy carrying handle and heavy duty drawbolt. Size: 22¼" long x 15¼" high x 8" wide.
Mastra TNT No. 33—Shpg. Wt. 12 lbs. Net Each..... $17.95

TNT MODEL 55—THE "CUSTOM"

Holds 250 Tubes. Over 2800 cubic inches of space. Tubes are carried in the wings and in the bottom compartment. Removable tray for tools has covered compartment for tester. Everything is always in plain view, tubes stand upright for easy identification. Rugged luggage type construction with waterproof steel lip and top grain cowhide corners. ⅜" steel bottom studs. Positive drawbolt with lock and key. Durable molded handle. Size: 19⅝" long x 14¼" high x 9¾" wide.
Mastra TNT No. 55—Shpg. Wt. 15 lbs. Net Each..... $22.95

WESTINGHOUSE SPECIAL PURPOSE TUBES

PLIOTRONS

Westinghouse Type	Net Each	Westinghouse Type	Net Each
WL-3X2500A3#	$......	WL-802	$ 5.15
WL-4X150A	35.40	WL-813	18.00
WL-4X500A#	121.00	WL-814	14.25
WL-4-1000A	132.00	WL-815	12.35
WL-207	240.00	WL-826	12.50
WL-4D21/4-125A	30.25	WL-829B	16.25
WL-450TH	77.00	WL-833A	49.50
WL-5D22/4-250A	41.25	WL-849	138.00
WL-805	13.50	WL-889RA	295.00
WL-807	2.50	WL-892	237.00
WL-808	12.85	WL-5604	540.00
WL-809	4.20	WL-5619	390.00
WL-810	16.25	WL-5736	145.00
WL-811A	5.00	WL-8000	14.50
WL-812A	5.00	WL-8005	8.55

#Forced air-cooled radiator.

IGNITRONS

WL-5550/681	$ 41.00	WL-5553/655	$216.00
WL-5551/652	65.00	WL-5554/679	163.00
WL-5552/651	99.00	WL-5555/653B	316.00

THYRATRONS

Westinghouse Type	Net Each	Westinghouse Type	Net Each
WL-3C23	$ 12.50	WL-678	$ 47.00
WL-414	120.00	WL-672A	35.00
WL-KU610	22.00	WL-2050	1.85
WL-624	48.00	WL-5557/17	8.50
WL-KU627	22.00	WL-5604	540.00
WL-KU628	34.00	WL-5619	390.00
WL-632B	28.00	WL-5736	145.00
WL-KU676	55.00		

KENOTRONS

WL-456	$100.00	WL-616	$225.00
WL-481B	8.25	WL-836	9.00
WL-579B	15.00	WL-8020	24.00

PHANOTRONS

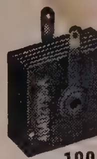
WL-3B22/1C	$ 7.60	WL-857B	$218.00
WL-4B24/3C	8.90	WL-869B	138.00
WL-575A	20.00	WL-872A	8.20
WL-670A/6C	16.00	WL-5558/32	15.50
WL-816	1.65	WL-5561/104	40.00
WL-866A	2.45	WL-8008	8.20

Selenium Rectifiers, Kits and Stacks

FEDERAL SELENIUM RECTIFIERS AND KITS

1003

1004


1006

1008

FTR No.	Max. DC Ma.	Max. RMS Volts	Plate Size	Net Each
1159	20	130	⅝″ round	$0.93
1002A	65	130	1″ square	.90
1003	75	130	1″ square	1.11
1004A	100	130	1$^{13}/_{64}$″ square	1.23
1101A	100	130	1″ square	1.14
1005A	150	130	1$^{13}/_{64}$″ square	1.35
1006A	200	130	1$^{17}/_{32}$″ square	1.89
1028A	250	130	1$^{17}/_{32}$″ square	1.89
1090A	300	130	1$^{17}/_{32}$″ square	1.98
1023	350	130	1¾″ square	2.46
1130	400	130	2″ square	2.55
1179	500	130	2″ square	2.64
1022	450	160	2″ square	2.97
1016	300	25	1$^{13}/_{64}$″ square	1.44
1017	600	25	1$^{17}/_{32}$″ square	1.89
1013	700	18	1$^{17}/_{32}$″ square	.84
1018	2000	18	4¼″ lg. (Mtg. Plate)	2.31
1001	75	20	1″ square	.48
Federal Miniature Selenium Rectifier Handbook				.50
Federal Selenium Rectifier Replacement Guide				.50

Letter "A" placed after number indicates locking lug.

SERVICE KIT NO. 1

Provides a satisfactory rectifier replacement in 9 out of 10 jobs. Contains a copy of Selenium Rectifier Handbook. Includes: 2-1004A, 2-1028A, 2-1023, 2-1021, 1 handbook.
Federal Kit No. 1—Net Each........................ 15^{50}

SERVICE KIT NO. 2

Outstanding value for radio serviceman. Provides following units in a clear plastic container. 2-1002A, 2-1003A, 2-1004A, 2-1005A. Includes Selenium Rectifier Replacement Guide.
Federal Kit No. 2—Net Each........................ $8^{75}

UNIVERSAL REPLACEMENT SELENIUM RECTIFIERS

FTR No.	Max. DC Ma.	Max. RMS Volts	Plate Size	Net Each
1263A	65	130	$^{11}/_{16}$″ square	$ .81
1236	300	130	1⅝″ square	1.98
1238	350	130	1¾″ square	2.46
1241	400	130	2″ square	2.55
1237	500	130	2″ square	2.64

All are eyelet construction and locking lug. 6/32″ mounting screw included.

"MAKE IT YOURSELF" KIT

All-purpose selenium rectifier kit that enables hobbyists, repairmen, electrical technicians and others to build their own selenium rectifiers for a wide range of AC-to-DC applications. Simple, illustrated instructions show how to assemble a total of 24 variations of 3 rectifier types: **Half-wave Full-wave Center-tap and Full-wave Bridge**—including Full-wave battery charger. Kit contains eight 5″ x 5″ plates and all hardware necessary to assemble any one of the combinations.
Federal Kit No. 3—Net Each........................ $19^{95}

FEDERAL INDUSTRIAL RECTIFIER STACKS

Federal No.	DC Output		Max. AC Input	Dimensions, In.		Net Each
	Volts	Amps.		Diam.	Depth	
106C1AX1	10	3.0	13	3⅜	1$^{9}/_{16}$	$ 4.62
133C1AX1		6.0		4⅜	1¾	6.18
136C1AX1		12.0		5 x 6	1¾	7.70
106B1AX1	20	3.0	26	3⅜	2$^{1}/_{16}$	8.40
133B1AX1		6.0		4⅜	2$^{11}/_{16}$	11.00
136B1AX1		12.0		5 x 6	2¾	14.10
106B2AX1	40	3.0	52	3⅜	3$^{9}/_{16}$	15.28
133B2AX1		6.0		4⅜	5	28.53
136B2AX1		12.0		5 x 6	5¼	26.20
106B3AX1	60	3.0	78	3⅜	4½	20.43
133B3AX1		6.0		4⅜	6¾	29.17
136B3AX1		12.0		5 x 6	7$^{5}/_{16}$	37.82
106B4AX1	80	3.0	104	3⅜	5½	$25.63
133B4AX1		6.0		4⅜	8$^{9}/_{16}$	35.75
136B4AX1		12.0		5 x 6	9$^{5}/_{16}$	49.23
139B5AX1	100	1.0	130	2″ sq.	5⅝	19.38
106B5AX1		2.4		3⅜	6⅝	31.02
133B5AX1		6.0		4⅜	10$^{9}/_{16}$	41.80
103B6AX1	120	0.3	156	*	4¾	13.33
104B6AX1		0.6		**	4⅞	15.68
139B6AX1		1.0		2″ sq.	6$^{7}/_{16}$	22.68
106B6AX1		2.4		3⅜	7⅝	36.23
133B6AX1		6.0		4⅜	12$^{5}/_{16}$	49.38

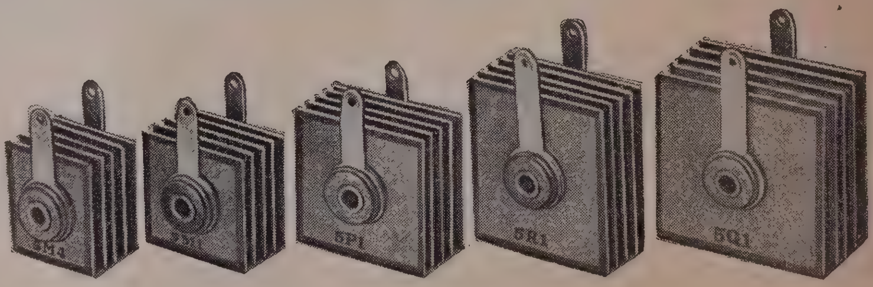
*1$^{9}/_{32}$ x 1$^{13}/_{64}$. **1$^{17}/_{32}$ sq.

SELETRON SELENIUM RECTIFIERS

The complete family of miniature rectifiers is designed for use on a nominal 115 volt A-C line, to provide direct current for radios, TV sets, amplifiers and other low power applications. Instant starting, small size, long life and simplicity are a few of their features.

RATINGS

Current ratings below are for maximum plate temperature of 75° C. in a maximum ambient temperature of 45° C. Recommended initial plate temperature 70° C. Output current ratings are based on RMS rectifier current not in excess of 2.5 times the rated output current.

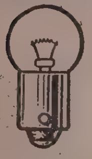


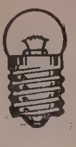
MINIATURE RECTIFIERS

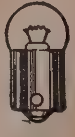
Model No.	Plate Size	Max. Input Voltage Rms	Max. Peak Inv. Volt	Max. D. C. Output Cur.	Appr. Rect. Drop	Net Each
1M1	1″ sq.	25 v.	75 v.	100 ma.	1 v.	$0.48
5M4	1″ sq.	130 v.	380 v.	75 ma.	5 v.	1.11
5M1	1″ sq.	130 v.	380 v.	100 ma.	5 v.	1.23
5P1	1$^{3}/_{16}$″ sq.	130 v.	380 v.	150 ma.	5 v.	1.29
5R1	1¼″ x 1½″	130 v.	380 v.	200 ma.	5 v.	1.65
5Q1	1½″ sq.	130 v.	380 v.	250 ma.	5 v.	1.77
8Y1	½″ sq.	130 v.	380 v.	20 ma.	......	.75
16Y1	½″ sq.	260 v.	760 v.	20 ma.	......	1.50
8J1	$^{11}/_{16}$″ sq.	130 v.	380 v.	65 ma.	......	.84
6P2	1$^{3}/_{16}$″ sq.	156 v.	456 v.	150 ma.	......	1.35
6Q1	1½″ sq.	156 v.	456 v.	250 ma.	......	1.89
6Q2	1½″ sq.	156 v.	456 v.	250 ma.	......	1.89
6Q4	1½″ sq.	130 v.	380 v.	300 ma.	......	1.98
5QS1	1½″ x 2″	130 v.	380 v.	350 ma.	......	2.34
6QS2	1½″ x 2″	156 v.	456 v.	350 ma.	......	2.46
6S2	2″ sq.	156 v.	456 v.	500 ma.	......	2.64

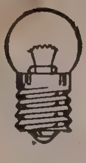
Panel Lamps, Diodes, Transistors

GENERAL ELECTRIC RADIO PANEL, FLASHLIGHT AND MISC. SERVICE LAMPS


G-4½ Min. Bay.


G-4½ Min. Sc.


G-3½ Min. Bay.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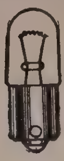
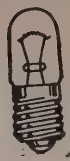
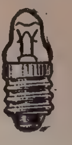
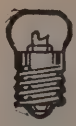
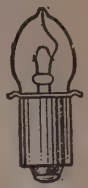

T-3¼ Min. Bay.


T-3¼ Min. Sc.


TL-3 Min. Sc.


FE-3¾ Min. Sc.


B-3½ Min. Flg.

Lamp Type	Bulb	Base ##	Volts	Amps.	Net Each	Net, Box of 10* 1 Box	Net, Box of 10* 10 or More
PR-2	B-3½	A	2.4	0.50	$0.17	$1.10	$0.99
PR-3	B-3½	A	3.6	0.50	.17	1.10	.99
PR-4	B-3½	A	2.3	0.27	.17	1.10	.99
PR-6	B-3½	A	2.5	0.30	.17	1.10	.99
PR-9	B-3½	A	2.7	0.15	.18	1.10	.99
PR-13	B-3½	A	4.75	0.50	.17	1.10	.99
PR-14	B-3½	I	2.38	0.50	.27	1.70	1.53
13	G-3½	B	3.7	0.30	.12	.80	.72
14	G-3½	B	2.5	0.30	.12	.80	.72
27	G-4½	B	4.9	0.30	.15	.90	.81
31	G-4½	B	6.2	0.30	.13	.80	.72
40	T-3¼	B	6–8	0.15	.12	.80	.72
41	T-3¼	B	2.5	0.50	.12	.80	.72
42	T-3¼	B	3.2	0.35	.13	.80	.72
43	T-3¼	C	2.5	0.50	.12	.80	.72
44	T-3¼	C	6–8	0.25	.12	.80	.72
45	T-3¼	C	3.2	0.35	.13	.80	.72
46	T-3¼	B	6–8	0.25	.12	.80	.72
47	T-3¼	C	6–8	0.15	.12	.80	.72
48	T-3¼	B	2.0	0.06	.16	1.00	.90
49	T-3¼	C	2.0	0.06	.16	1.00	.90
50	G-3½	B	6–8	1†	.12	.80	.72
51	G-3½	C	6–8	1†	.11	.70	.63
55	G-4½	C	6–8	2†	.11	.70	.63
57	G-4½	C	12–16	2†	.14	.90	.81
63	G-6	D	6–8	3†	.12	.80	.72
81	G-6	D	6–8	6†	.14	.90	.81
82	G-6	E	6–8	6†	.16	1.00	.90
112	TL-3	B	1.2	0.22	.13	.80	.72
136	G-4½	B	1.3	0.60	.15	.90	.81
222	TL-3	B	2.2	0.25	.13	.80	.72
223	FE-3¾	B	2.2	0.25	.12	.80	.72
224	TL-2¾	F	2.15	0.22	.11	.90	.81
233	G-3½	B	2.2	0.27	.12	.80	.72
248	G-5½	B	2.5	0.80	.15	.90	.81
313	T-3¼	C	28	0.04	.30	1.90	1.71
327	T-1¾	G	28	28	.80	5.00	4.50
428	G-4½	B	12.5	0.25	.12	.80	.72
432	G-4½	B	18.0	0.25	.14	.90	.81
433	G-4½	C	18	0.25	.14	.90	.81
605	G-4½	B	6.1	0.50	.15	.90	.81
1133	RP-11	D	6–8	32†	.33	2.00	1.80
1188	RP-11	E	6–8	50/32†	.60	3.70	3.33
1446	G-3½	B	12	0.20	.15	.90	.81
1447	G-3½	B	18.0	0.15	.19	1.20	1.08
1449	G-3½	B	14	0.20	.15	.90	.81
1458	G-5	C	20	0.25	.15	.90	.81
1477	T-3	B	24	0.17	.40	2.50	2.25
1487	T-3¼	B	12–16	0.20	.17	1.10	.99
1488	T-3¼	C	14	0.15	.17	1.10	.99
1490	T-3¼	C	3.2	0.16	.12	.80	.72
1493	S-8	E	6.5	2.75	.85	5.30	4.77
1815	T-3¼	C	12–16	0.20	.17	1.10	.99
1820	T-3¼	C	28	1.0	.32	2.00	1.80
1829	T-3¼	C	28.0	0.07	.30	1.90	1.71

†Refers to Candle Power rather than Amps. ##**A**—Single contact miniature flanged; **B**—Miniature screw; **C**—Miniature bayonet; **D**—Single contact bayonet; **E**—Double contact bayonet; **F**—Special; **G**—Single contact midget flanged; **H**—Double contact miniature bayonet. **I**—Double contact flanged. ***Prices Include Federal Excise Tax.**

GENERAL ELECTRIC GLOBAR RESISTORS

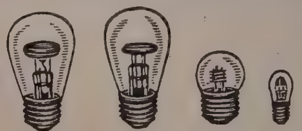
G.E. No.	Type	Initial Ohms	Oper. Ohms	Oper. Volts	Fil. Ma.*	List Price
RRW-041	Temp're	1,100	75	....	300	$1.65
RRW-051	Temp're	250	20	....	600	1.75
RRW-054	Temp're	460	35	....	590	1.75
RRW-094	Temp're	130	31	....	600	1.90
RRW-097	Temp're	260	31	....	300	1.75
RRW-052	Voltage	10.5M	....	125	.....	1.50
RRW-061	Voltage	16.5M	....	155	.....	1.50
RRW-072	Voltage	15.0M	....	150	.....	1.75
RRW-088	Voltage	14.0M	....	140	.....	1.50

*These are nominal values taken from the GE TV set for which these resistors were originally intended. Variations in initial resistance values for similar current drains are determined by actual tube complement. High initial resistances are always safe by any application, but warm-up time will be longer.

110-120 VOLT REPLACEMENT PILOT LIGHTS

Type	Description	Watts	Length	Net Each
S-6	Candelabra Base	6	1⅞"	17c
S-6	D.C. Bayonet Base	6	1⅞"	26c
S-6	Candelabra Base	3	1⅞"	25c
S-6	D.C. Bayonet Base	3	1⅞"	35c
C-7	Candelabra Base	7	2⅛"	12c
C-7	D.C. Bayonet Base	7	2⅛"	14c
Herzog	Candelabra Base	4	1 9/16"	39c

G-E NEON GLOW LAMPS



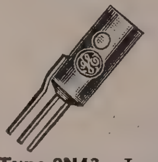
Low-voltage lamps of the gaseous discharge type. For use as pilots and indicators in industrial apparatus. Screw base lamps have the required resistor, for operation on the rated voltage, included within the lamp base. Bayonet base lamps are not equipped with resistors.

Order Designation	Wts.	Bulb	Volts (Circuit)	Base	Net Each*	Box of 10 Net*
†NE-40	3	S-14	105–125	Medium Screw	$1.15	$8.05
†NE-34	2	S-14	105–125	Medium Screw	.75	5.25
†NE-30	1	G-10	105–125	Medium Screw	.70	4.90
†NE-32	1	G-10	105–125	D. C. Bay. Cand.	.65	4.55
†NE-57	1/4	T-4½	105–125	Cand. Screw	.70	4.90
†NE-45	1/4	T-4½	105–125	Cand. Screw	.65	4.55
†NE-48	1/3	T-4½	105–125	D. C. Bay. Cand.	.53	3.71
†NE-16	1/4	T-4½	105–125	D. C. Bay. Cand.	.63	4.41
†NE-17	1/4	T-4½	105–125	D. C. Bay. Cand.	.67	4.69
‡NE-2	1/25	T-2	105–125	Unbas. (Wire Tm.)	.09	.63
†NE-51	1/25	T-3¼	105–125	S. C. Bay. Min.	.12	.84

NE-34, NE-40 supplied with red finish at add'l charge of 5c each
†Unit pkg. qty. 10 lamps, std. pkg. qty. 100 lamps.
‡Unit pkg. qty. 100 lamps, std. pkg. qty. 1000 lamps.

***PRICES DO NOT INCLUDE FEDERAL EXCISE TAX.**

GENERAL ELECTRIC TRANSISTORS



Type	Net Each
Type 2N76—Net Each	**$2.80**
Type 2N78—Net Each	**5.25**
Type 2N81—Net Each	**7.40**
Type 2N107—Net Each	**1.40**
Type 2N135—Net Each	**3.95**
Type 2N136—Net Each	**5.25**
Type 2N137—Net Each	**6.55**

Type 2N43—Junction type p-n-p transistor, having characteristics of high gain, medium power. **Ratings:** Coll. diss. 150 mw max.; coll. voltage, −45 v. max.; current −50 ma. **Size:** 0.282″ x 0.328″. Weight 2 oz. Net Each........ **$5.40**

Type 2N43A—Net Each........ **$6.40**

Type USAF-2N43A—Net Each........ **6.80**

Type 2N44—Junction type p-n-p transistor. Has characteristics of medium gain and medium power. **Ratings:** Coll. Diss. 150 mw max.; coll. voltage, −45 v. max; current, −50 ma. **Size:** 0.282″ x 0.328″. Weight 2 oz. Net Each........ **$3.95**

Type 2N45—Junction p-n-p. Medium gain; medium power. **Ratings:** 150 w max. coll. diss.; −45 v. max. V.; −50 ma. max. current. **Size:** 0.282″ x 0.328″. Shpg. Wt. 2 oz. Net Each. **$3.25**

G-E WELDED GERMANIUM DIODES

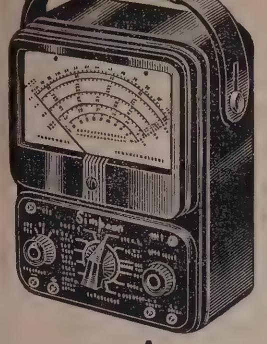
Welded contact construction provides maximum shock resistance. High ambient temperature curve. improved electrical stability. Low shunt capacity 0.8 µf. Low lead-to-lead capacitance. High moisture resistance. Permits flexibility of application. Small physical size, requires no more space than a 1 watt resistor. Minimum life expectancy 10,000 hours under normal conditions and maximum ratings. Eliminates hum experienced with former rectifier tubes. Self-healing under temporary over-voltage conditions.

G.E. Type	Net Each	G.E. Type	Net Each	G.E. Type	Net Each	G.E. Type	Net Each
1N34A	$0.80	**1N64**	$0.50	**1N92**	$2.85	**1N368**	$2.70
1N38A	1.40	**1N65**	.65	**1N93**	3.80	**1N368A**	3.35
1N48	.65	**1N69**	.90	**1N151**	2.55	**G6**	2.25
1N48 MP	1.80	**1N70**	2.40	**1N152**	3.35	**G7A**	1.00
1N51	.50	**1N72**	1.00	**1N153**	4.25	**G7B**	1.20
1N52	1.40	**1N73**	16.20	**1N158**	6.65	**G7C**	1.20
1N52 MP	3.35	**1N74**	12.35	**1N285**	1.20	**G7D**	2.40
1N54A	1.50	**1N75**	2.65	**1N314**	15.85	**G7E**	2.40
1N58A	1.45	**1N75 MP**	6.00	**1N315**	2.95	....	.....
1N63	2.50	**1N81**	1.95	**1N315A**	3.75	....	.....
1N63 MP	6.00	**1N91**	1.40	**1N355**	1.90	....	.....

Simpson

INSTRUMENTS THAT STAY ACCURATE

Test Equipment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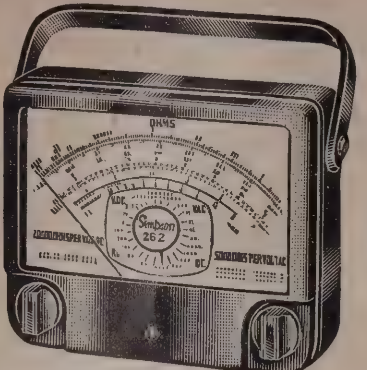
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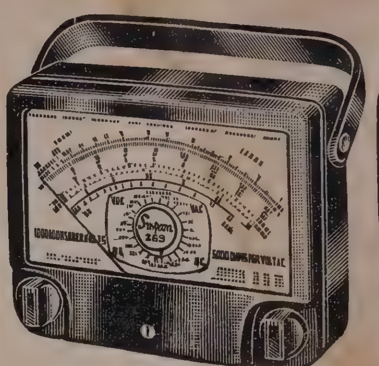

C

D

FAMOUS MODEL 260 VOLT-OHM-MILLIAMETER—FIG. A

OVER 400,000 IN USE TODAY

Compact, sensitive, rugged. All direct connections, no cabling and complicated wiring. Tests up to 20 megs and as low as ⅕ ohm. 20,000 ohms/volt, DC; 1000 ohms/volt AC. AC-DC-Output voltage ranges: 2.5, 10, 50. 250, 1000, 5000. Ma., DC: 10, 100, 500. Microamps, DC: 100, amps, 10. Ohms: 0-2000, 200K, 20 megs. —10 to +52 DB in 5 ranges. Shipping weight 3 lbs. Standard case. Battery operated. Heavy bakelite case. Net Each.. $38.95

Roll top case (Not Illustrated)—Net Each...............$46.90

Leather Carrying Case for Model 260—Net Each..... 6.75

Everedy Carrying Case for Model 260—Net Each..... 8.75

25,000 Volt DC Probe—For TV testing. Net Each....... 9.95

NEW MODEL 262 VOLT-OHM-MILLIAMMETER—FIG. B

20,000 ohms/volt sensitivity. 33 ranges. Big, 7″ dial, compact, 7″ case. Only 2 controls. Rugged construction. Accuracy, 3% DC and 5% AC of full scale. Adjust-A-View handle for convenient viewing. **DC Volts:** 0-1.6, 8, 40, 160, 400, 1600, 4000 volts. 20,000 ohm/volt sensitivity. **AC Volts:** 0-3, 8, 40, 160, 800 volts. 5000 ohm/volt sensitivity. **AF Output:** 0-3, 8, 40, 160 volts. 0.1 μfd. internal series capacitor. **DB:** −8 to −11; −.5 to −19; 14.5 to −33.5; −26.5 to −45.5 db. Calibrated for use across a 600 ohm line. **DC Ohms:** 0-500, 5000, 50,000 ohms: 0-.5, 5, 50 megs. **DC Amps.** 0-80, 160 microamps; 0-1.6, 16, 160 milliamps; 0-1.6, 16 amps. Complete with test leads, removable alligator clips, 4000vdc multiplier and manual. Shipping weight, 6 lbs. Net Each.. $59.50

40,000 Volt High Voltage Probe—Net Each........... $12.50

NEW MODEL 269 VOLT-OHM-MICROAMMETER—FIG. C

100,000 ohms/volt sensitivity. 33 ranges. Only 2 controls. Big, 7″ dial. Rugged construction. Accuracy, full scale is 3% DC and 5% AC. Adjust-A-View handle. All ranges the same as Model 262 above except **DC Ohms:** 0-2000, 20,000, 200,000 ohms; 0-2, 20, 200 megs. **DC Current:** 0-16, 160 microamps; 0-1.6, 16, 160 milliamps; 0-1.6, 16 amps. Complete with test leads with removable alligator clips, 4000vdc multiplier and manual. 7$^{15}/_{16}$″ x 6″ x 2$^{15}/_{16}$″. Shipping weight, 6 lbs. Net Each......... $88.00

40,000 Volt High Voltage Probe—Net Each...........$12.50

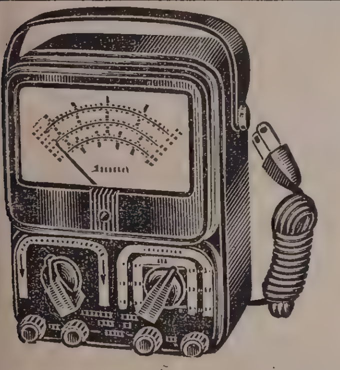
MODEL 303 VACUUM TUBE VOLT-OHMETER—FIG. D

Measures AC and DC volts (1.2, 12, 60, 300 and 1200 volts), AF volts (1.2, 12, 60 volts), RF volts to 20 volts max., ohms (1000, 100K, 1 and 10 megs), DB's (—20 to +63 in 5 stages). Galvanometer zero center for FM alignment. Size 5¼″x7″x3⅛″. Wt., 6⅛ lbs. Includes DCV and Ohms probe, ground lead. Net Each.**$68.00**

AC Probe—Net **$3.00. DC Probe**—Net **$3.50. Grd. Lead—$1.00**

Accessory Probe, **$7.50.** Hi-voltage Probe............... 9.95

Model 303RT—With roll top case. Net Each......... 76.00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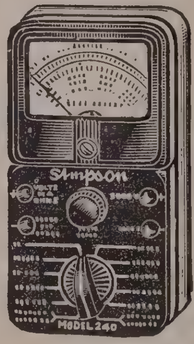
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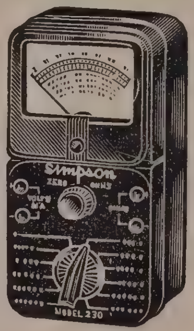
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MODEL 276 OSCILLOSCOPE CALIBRATOR—FIG. E

Adapts oscilloscope for quick and accurate voltage measurements by comparative methods. 12-position switch provides 6 ranges each of RMS, Peak and Peak-to-Peak voltage with 6 alternate neutral positions by viewing signal under observation. Continuously variable calibrating voltage of line frequency supplied and indicated on large 4½″ meter which indicates RMS values from 0.06 volt to 90 volts peak, peak values from 0.1 to 125 volts and peak-to-peak from 0.2 to 250 volts. Shipping weight, 5 lbs. Net Each.................... $29.50

VOLT-OHM AMMETERS

Model 240 (Fig. F)—Volt-Ohm-Milliammeter Micro-Tester. Rugged, accurate and small. Wide-angle scale; operates on dry cells. 1000 ohms/volt, AC-DC. To 3000 volts AC-DC in 4 ranges. DCMA to 750 in 4 steps. **Ohms:** 0-3K (30 ohms ctr.), 0-300K (300 ohms ctr.). Accuracy, DC 3%; AC 5%. 3″ x 5⅞″ x 2½″. Shipping weight, 3 lbs. Net Each.............. $26.35

Leatherette Case for Model 240—Net Each............$5.50

Model 230 (Fig. G)—Volt-Ohm-Milliammeter Micro-Tester. Smaller version of Model 240. Shockproof, heavy bakelite case. 3″ meter, 1000 ohms/volt. AC-DC volts to 1000 on 4 steps; DCMA to 250 in 3 steps. **Ohms:** 0-1000, 100K. Accuracy, DC, 3%; AC 5%. 3″ x 5⅞″ x 2½″. Shipping weight, 3 lbs. Net Each.. $24.95

Leatherette Case for Model 230—Net Each............$5.50

MODEL 379 BATTERY TESTER—FIG. H

Condition in terms of percentage of voltage of battery under test. Meets engineering specifications of leading battery manufacturers. 1% tolerance loading resistors. 3″ meter dial marked "Good", "Weak", "Bad". With needle-point prods, operating manual. 3″ x 5⅞″ x 2½″. Shipping weight, 2½ lbs. Net Each.. $23.70

Leatherette Case for Model 379—Net Each............$5.50

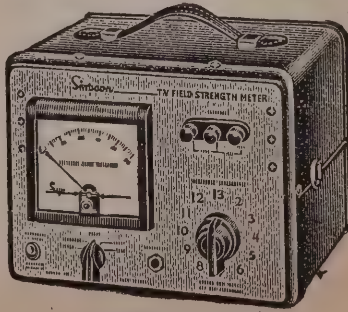
MODEL 370 AC AMMETER—FIG. I

Self-contained current transformer (use on 60 cps only) and indicating instrument. Measures current draw of all types of electrical apparatus. **Ranges:** 0-1, 2.5, 5, 10, 25 amperes. Without leads. Net Each $19.95

Test Leads—With prods. Net Each $1.25

Test Leads—With alligator clips and insulated sleeves. Net. .$1.25

MODEL 488 TV FIELD STRENGTH METER



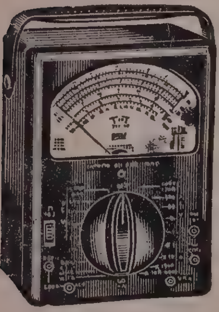
50 microvolt full-scale range for fringe area installations. Also 500, 5000, 50,000 microvolt ranges. 4½″ meter can be read from a distance. Housed in gray hammerloid case, heavy leather handle for portability. Includes shoulder strap and operating instructions. 8″ x 11″ x 8½″. Shipping weight, 15 lbs. Net Each... $115.00

MODEL 351
TV ANTENNA COMPASS

Ruggedly built, pocket sized. Connects by a simple insulation-piercing alligator clip to the video input of the CRT. By an extension cord it is carried to antenna site. With test pattern tuned in on weakest station, rotate antenna to maximum deflection on compass. 4¾″ x 4¼″ x 1$^{9}/_{16}$″. Shpg. Wt., 4 lbs. Net Each............ $16.35

Quality Test Instruments by TRIPLETT

MODEL 630 VOLT-OHM-MILLIAMMETER



A beautiful streamlined instrument in a completely insulated, molded case that provides AC-DC volts, DC microamps, milliamps, amps, ohms, megs, db's and output readings. All DC scales black on white; AC and Ohms, red on white. 5½″ meter carriers Red • Dot Lifetime Guarantee. One switch which will select any range. Recessed knob flush with panel. Banana jacks for longer life and better contact. Special 1% resistors selected for greater accuracy. Unit construction—resistors, shunts, rectifier, batteries all housed in molded base integral with switch. 3 7/32″ x 5½″ x 7½″ Panel black molded with engraved white markings.

RANGES

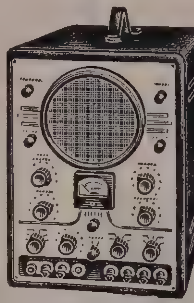
DC Volts: 0-3-12-60-300-1200-6000 at 20,000 ohms per volt. **AC Volts:** 0-3-12-60-300-1200-6000 at 5000 ohms per volt. **DB:** −30 to +70 (seven ranges). **DC Microamps:** 0 to 60 at 250 M.V. **DC Milliamps:** 0-1.2-12-120 at 250 M.V. **DC Amps:** 0-12 at 250 M.V. **Ohms:** 0-1000-10,000. **Megs:** 0-1-100. **Output:** condenser in series with AC volts. Weight: 4 lbs.
Triplett Model 630—Net Each $39.50

MODEL 630-A VOLT-OHM-MILLIAMMETER

Triplett Model 630-A—Has the same ranges and all the other advanced design features as Model 630 above, but with mirror scales and more accurate components(i.e., ½% resistors). Complete. Net $49.50

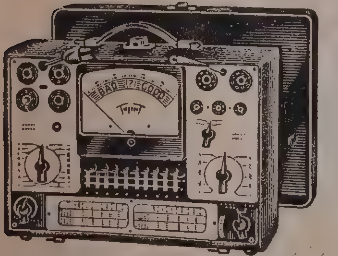
Triplett Model 630-T—Specially designed for telephone and industrial maintenance. Special straps hold instrument for easy reading, leaving both hands free. DC volts to 600 at 20K ohms/volt. ma. to 120 at 150 microv. AC volts to 600 at 3K ohms/volt. Ohms: 0-1K-10K-100K-1 Meg.-10 Meg. Test leads, clips, special banana jack connectors to eliminate all shock hazard.
Triplett Model 630-T V-O-M—With instruction manual.
Net Each $52.50

MODEL 3441 5-IN. OSCILLOSCOPE



Peak-to-Peak voltmeter included. Low range 0.3 volt peak-to-peak. High range 0-1000. **Sensitivity:** 10 mv per inch (RMS) maximum. **Linear Time Base:** 10 cps to 60 kc/seconds linear available at panel. Phone jack is on front panel connected to output of vertical amplifier for listening as well as watching. Saw-tooth output supplies a saw-tooth wave form from 10 to 60,000 cycles and may be attenuated from 0-70 volts peak-to-peak. **Case:** Metal with black suede enamel finish, 15 11/32″ x 11 1/32″ x 16″. Panel black, red and white characters etched in aluminum. 115 volts, 50-60 cps, 80 w.
Vertical Amplifier: Response usable beyond 9.0 mc. Shows a 300 kc square wave response. Two frequency response ranges with four-range compensated attenuator. **Horizontal Amplifier:** Frequency range flat within −20% from 20 cycles to 150 kc. Deflection sensitivity −.15 RMS volts/inch. **Input Impedance:** Vertical amplifier, 2 megs. in parallel with 45 $\mu\mu$f at input terminals. P.P. vert. and hor. amps. Weight: 38 lbs.
Triplett Model 3441—Net Each $249.50

MODEL 3413-B TUBE TESTER

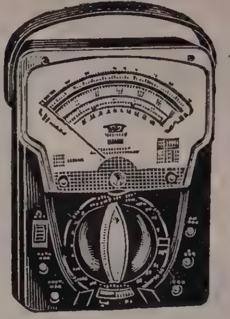


A tube tester with improved testing flexibility permitting checking any type radio receiving tube, miniature hearing aid tubes, and TV picture tubes. TV picture tubes are checked without removing them from the receiver, by use of an adapter that may be purchased separately. Checks electrical appliances, motors, etc. Flexible 3-position lever switches for complete coverage of present and future tube connections. Easy-to-read roll-type chart is built into the tester. Simplified test procedure makes it possible for user to add new tube data to chart when desired. Line voltage indication on center of meter dial permits observation and adjustment for line fluctuations. Filament voltage 0.63 to 110 volts in 19 steps. Large 6″ meter. Red Dot Lifetime Guaranteed, has 3-color easy-to-read GOOD-?-BAD scale. Metal case, 15 11/32″ x 11 1/32″ x 6⅛″, black satin wrinkle finish, with removable, hinged cover and leather handle. Panel etched in black, silver and red. Complete instruction supplied. Power, 115 volts, 50-60 cycles. Weight, 20 lbs.
Triplett Model 3413-A—Net Each $79.50

TV TUBE ADAPTER MODEL BV

With the BV Adapter, Model 3413-A will test every tube in a TV receiver, including the picture tube. Can be used on all Triplett testers. Test picture tubes right in the shipping carton or in the receiver without removing it. A time saver and safety factor.
Triplett Model BV—Net Each $4.50

NEW MODEL 630-NA VOLT-OHM-MILLIAMMETER

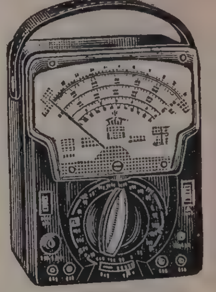


Incorporates meter protection against overloads; high accuracy on same scale for AC and DC; 70 ranges; 5½″ meter; pressure contact switching. Red • Dot lifetime guarantee.

RANGES

DC Volts: 0-0.240-0.6-3-12-60-300-1200-6000 at 10,000 ohms per volt; 0-0.120-0.3-1.5-6-30-150-600-3000 at 20,000 ohms per volt. **AC Volts:** 0-3-12-60-300-1200-6000 at 5000 ohms per volt; 0-1.5-6-30-150-600-3000 at 10,000 ohms per volt. **DC Microamperes:** 0-120 at 240 microv.; 0-60-600 at 120 microv. **DC Ma.:** 0-1.2-12-120-1200 at 240 microv.; 0-6-60-600 at 120 microv. **DC Amps.:** 0-12 at 240 microv.; 0-6 at 120 microv. **Ohms:** 0-1K-10K-100K (4.4-44-440 at center scale). **Megohms:** 0-1-10-100 (4400-44,000-440,000 at center scale). Weight approximately 4 lbs.
Triplett Model 630-NA V-O-M—Complete with 48″ leads, alligator clips, batteries, and instruction manual.
Net Each $69.50

MODEL 631 COMBINATION VTVM-VOM

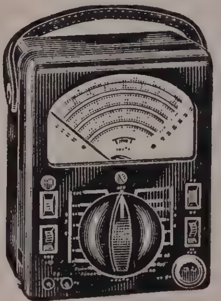


A Volt-Ohm-Milliammeter and a Vacuum Tube Voltmeter combined in one compact low-priced instrument. 34 ranges. Sensitivity: V-O-M: 20,000 ohms per volt DC, 5000 on AC. VTVM: 11 megohms. Single switch selects all ranges.

RANGES

Volt-Ohm-Milliammeter: DC Volts: 0-3-12-60-300-1200 at 20,000 ohms per volt. **AC Volts:** Same range at 5000 ohms per volt. **DC Microamperes:** 0-60 at 250 MV. **DC Milliamperes:** 0-1.2-12-120-1200 at 250 MV. **DC Amperes:** 0-12 at 250 MV. **Decibels:** −30, +4, +16, +30, +44, +56. **Ohms:** 0-1500-15,000 (6.8-68 center scale, first division 0.1). **Megohms:** 0-1.5-150 (6800-680,000 center scale). **Output:** Condenser in series with AC Volts.
Vacuum Tube Voltmeter: DC Volts: 0-1.2-6-30-120 (First division is 0.02 Volt). Galvanometer Center mark "-0-" for discriminator alignment. **Size:** 5½″ meter housed flush with panel. 3 7/32″ x 5½″ x 7½″ black molded case. **Leads:** 48″ test prods, removable alligator clips at one end. 48″ lead with 1 meg built in for VTVM. Banana type for low contact resistance. Pencil thin prods. Weight 4 lbs.
Triplett Model 631—Net Each $59.50

MODEL 650 VACUUM TUBE VOLTMETER



Reads AC rms Peak-to-Peak and RF to 110 mc with one probe. Separate 1 ACV and 5 ACV scales. 5½″ meter flush with front panel. Single recessed range selector switch.

RANGES

DC Volts: 0-1-5-10-50-100-500-1000. **AC Volts:** 0-1-5-10-50-100-500. **Peak-to-Peak Volts:** 0-2.8-14-28-140-280-700 (Read on 0-1400 scale). Peak-to-Peak value of sine wave to 1400 volts. **Ohms:** 0-1000-10,000-100,000. **Megohms:** 0-1-100-1000. **Decibels:** Special tables in instruction book. Galvanometer Center mark "-0-" for discriminator alignment on all DCV ranges −.5 to +.5 volt on 0-1 DCV range. **Frequency Range:** A.C.R.F.: 15 cps to 150 MC at 30%. Weight 5 lbs.
Triplett Model 650—Net $89.50

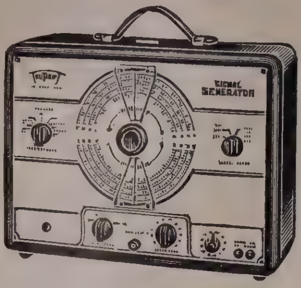
DC High Voltage Probe—50kv-500 DC volt range, 10kv-100 DC volt range, 5kv-50 DC volt range. Net Each **$14.50**
Stand—Holds tester at about a 45° angle. Net Each **50c**
UHF Probe—Available on special order .... **Write for Price**
Model 659 Carrying Case—Bk. leather, strap handle. Net. **$9.50**
Model 659-P Carrying Case—Black leather, strap handle, lined with ⅜″ sponge rubber. Net Each **$14.50**

MODEL 3434-A SWEEP GENERATOR MARKER

Sweep Center Frequency: Range 1. 0-60mc; Range 2, 60-120mc; Range 3, 120-240mc. **Sweep Width:** 0-12 mc (continuously variable). **Marker Frequency:** 3.5-4.9mc; 19-5-29.3mc; 29-48.6mc (fundamentals); 48.6 to 243mc on harmonics. **Crystal Frequency:** to 20mc (fundamental). Can be used to produce harmonics to 216mc. (crystals not furnished). **Modulation:** 600 cycles on both crystal and marker frequencies. **Audio:** 600 cycles. Sweep width better than 1 volt. Marker pip, dip and crystal. This unit supplies horizontal bars for vertical linearity and alignment. Complete interior shielding permits good attenuation. Variable marker on fundamentals provides continuous tuning over all present Video and Sound IF's. Regulated power supply for greater oscillator stability. Line filter to prevent leakage to line through power supply. Case, metal with black baked enamel suede finish, 15 11/32″ x 11 1/32″. 8¼″. Panel, black, white and red characters etched on aluminum. Power supply 105-115 volts, 50-60 cycles, 55 watts. Weight: 23 lbs.
Triplett Model 3434-A.
Net Each $239.50

Quality Test Instruments by TRIPLETT

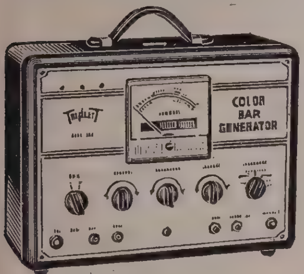
NEW MODEL 3432-A SIGNAL GENERATOR



Complete frequency coverage from 160 kc to 110 mc (220 mc using harmonics), with no skips in frequency for AM-FM radio, monochrome and color TV servicing. RF circuits double shielded with copper shields. Large, easily read, etched aluminum dial. Cathode follower output. Step-type attenuator. Jacks provided for either internal modulation or audio output. Smooth planetary drive dial. Metal case with black baked enamel suede finish, 15 11/32" x 11 1/32" x 6¼". Black leather strap handle, rubber feet. Panel is aluminum, etched in silver, black, and red. Tubes: 12AU7, 6C4, 6X4. Wt. approx. 12 lbs. 115 volt, 50-60 cycles AC. Pilot light. Output connections. Low capacity coaxial cable fitting for RF output. Two jacks for AF output and external modulation.

Triplett Model 3432-A Signal Generator—Net Each.. **\$99^{50}**

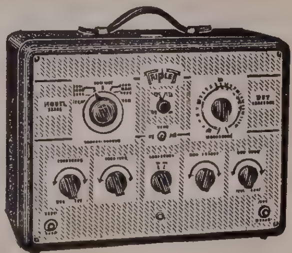
NEW MODEL 3439 COLOR-BAR GENERATOR



Indispensable for testing the overall performance of color TV receivers, including color phasing adjustments, color synchronizing and color matrixing. Crystal controlled RF output. Built-in VTVM circuit with meter on the panel provides easy and quick checking of sync., subcarrier and modulation amplitudes. **Frequency:** RF output—Channel 3 (61.25 mc picture, 65.75 mc sound) supplied regularly, Channels 2 and 4 supplied on special order. **Colors:** Crystal controlled accuracy, 10 bars of color corresponding to R-Y, B-Y, I and Q axis. **RF Output Impedance:** Approx. 300 ohms (at end of RF output cable). **Composite Picture Signal:** 61.25 mc picture carrier; 15,750 cps horizontal sync. pulses; 3563.795 kc color subcarrier keyed at 189 kc. **Meter:** Large plastic full view meter with 4.14" scale. **Case:** Metal with black baked enamel suede finish. 15 11/32" x 11 1/32" x 6¼". Leather handle. **Panel:** Silver, black and red etched aluminum. **Power Supply:** 115 volts, 50-60 cycles AC, 55 watts. **Weight:** Approximately 16 lbs.

Triplett Model 3439 Color Bar Generator—Net Ea. **\$249^{50}**

NEW MODEL 3438 DOT GENERATOR



Checks video, RF, IF, sync and color circuits with mod. RF (Chan. 2-6) and IF (20-55 mc) outputs. Horiz. sync pulses (15,750 cps), vert. sync pulses (60 cps). Horiz. bars (480-600 cps), vert. bars (crystal controlled at 189 kc) for checking linearity. Crosshatch for overall linearity. White dots for checking convergence. Crystal controlled accuracy for varying colors through approx. 330° of the spectrum. Produces red, blue and green color spectrum and colors corresponding to phases of R-Y, B-Y, I and Q axis. Plus or minus video signals. Metal Case, baked enamel suede finish. 6¼" x 11 1/32" x 15 11/32". Panel, silver, black and red etched aluminum. Shielded output coax cable. 115 v., 50-60 cycles AC, 55 watts. Weight approxmately 16 lbs.

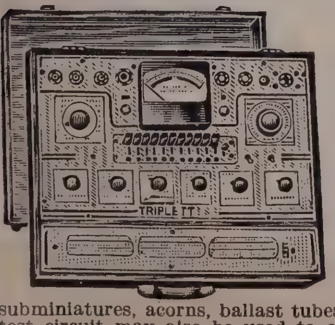
Triplett Model 3438 Dot Generator—Net Each.... **\$229^{50}**

MODEL 3436 UHF MARKER GENERATOR

UHF all fundamentals on Channels 14-83 (470-900 mc). No harmonics for confusion. Steel case, black baked enamel. 15 11/32" x 11 1/32" x 8½". Wt. approx. 24 lbs. Leather handle, instructions and leads.

Triplett Model 3436 UHF Marker Generator—Net. **\$169^{50}**

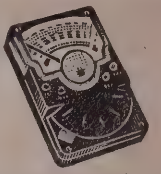
MODEL 3423 MUTUAL CONDUCTANCE TUBE TESTER



Patented circuit for tube testing employs actual signal (4kc) for grid signal. A detector in the plate circuit which responds to 4kc is used to extract the amplifier signal. Thus, hum and ripple and tubes with open grids present no problem to the Triplett tester; can't give false readiugs. Six plate voltages for tube tests, including 0-10 AC variable for low voltage tubes (also 10, 30, 70, 100 and 250). Tests all types of receiving tubes, low power transmitting tubes, rectifiers, thyratrons, voltage regulators, eye tubes, subminiatures, acorns, ballast tubes and pilot lamps. Continuity test circuit may also be used to check electrical appliances for shorts or open circuits. Flexible 3-position lever switches for complete coverage of both present and future tube connections. Case has hinged removable lid. 14¾" x 18 25/32" x 6 13/32".

Triplett Model 3423—Net Each.................. **\$199^{50}**

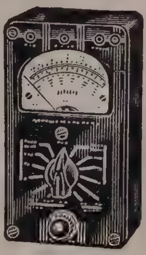
NEW MODEL 310 COMPLETE MINIATURE V-O-M



This is the first complete 20,000 ohms/volt miniature V-O-M. Foolproof selector switch speeds selection of circuits and ranges. Probe-A-Test provides that third hand when testing away from the bench. Interchangeable probe tip fits in top of tester to become the common probe; the two leads connect together to form a 48" test lead. Self-shielded for testing in strong magnetic field. Rugged, higher torque Bar-Ring instrument movement. Printed circuit. **Accuracy:** Meter: ±3% DC and ±4% AC. Components: ±2% instrument, ±1% resistor, ±1% rectifier. **Scale:** 2¼" top arc, black (DC) and red (AC) on white. **Ranges:** DC volts, 0-3-12-60-300-1200 at 20,000 ohms/volt. AC volts, 0-3-12-60-300-1200 at 5000 ohms/volt. DC Microamps, 0-600 at 250 mv. DC Milliamps, 0-6-60-600 at 250 mv. Ohms, 0-20,000-200,000 (200-2000 center scale). Megohms, 0-2-20 (20,000-200,000 center scale). **Size:** 2¾" x 4¼" x 1 3/16" fully insulated black molded case. **Weight:** Approx. 14 oz. with self-contained batteries—easily accessible. With 24" leads and full instructions and output chart.

Triplett Model 310 Miniature V-O-M—Net Each.... **\$29^{50}**
Triplett Model 369 Carrying Case—Leather case for Model 310. Attaches to belt. Space for accessories. Net Each........ **\$2.90**

POCKET VOLT-OHM-MILLIAMMETER



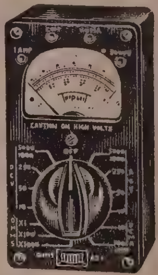
Compact, pocket-size Volt-Ohm-Milliammeter featuring wide resistance ranges, maximum scale readability and simplified switching. Precision-made, it provides a complete "miniature lab" for voltage, resistance and current measurements. Banana-type jacks provide low contact resistance and trouble-free plug-in connections. High accuracy assured on voltage ranges by special resistors, and on current ranges by 250 millivolt Red • Dot Lifetime Guaranteed meter. All scale markings black on white except AC which is red on white. Black molded case, 3 1/16" x 5⅞" x 2 9/16".

RANGES

DC Volts: 0-10-50-250-1000-5000 at 1000 ohms/volt. **AC Volts:** 0-10-50-250-1000-5000 at 1000 ohms/volt. **DC Milliamps:** 0-10-100-500. **Ohms:** 0-2000-400,000 (12-2400 at center scale). Complete with batteries and 50" test leads. Wt., 1½ lbs.

Triplett Model 666-HH—Net Each................... **\$24^{50}**
Model 669 Carrying Case—Net Each...................**\$5.50**

MODEL 666-R POCKET VOLT-OHM-MILLIAMMETER



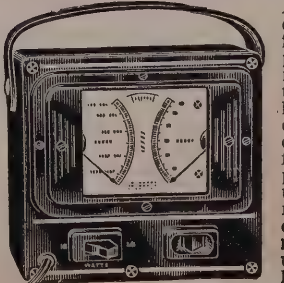
Unit construction—resistors, shunts, rectifier, batteries are housed in molded base integral with switch. Single switch selects any range. Recessed knob flush with panel. Red • Dot Lifetime Guaranteed. Resistors are precision wire-wound or film types. 3" 0-200 milliammeter, 250 M. V. Banana jacks at top of panel reduce possibility of leads falling over the panel and meter dial. All connectors, knobs and controls are flush with the panel. Precalibrated rectifier unit for easy replacement. Streamlined, black molded case is completely insulated. 3 1/16" x 5⅞" x 2 9/16". Engraved white markings except AC, which are red.

RANGES

DC Volts: 0-10-50-250-1000-5000 at 1000 ohms/volt. **AC Volts:** 0-10-50-250-1000-5000 at 1000 ohms/volt. **DC Milliamps:** 0-10-100 at 250 M.V. **DC Amps:** 0-1 at 250 M.V. **Ohms:** 0-3000-300,000. **Megohm:** 0-3. (Compensated Ohmmeter circuit). **Leads:** 50" long. Test prods with removable alligator clips at one end. Banana type plugs at other end for connecting to tester jacks, give low contact resistance at jacks.

Triplett Model 666-R—Net Each................... **\$26^{50}**
Model 669 Carrying Case—Net Each...................**\$5.50**

MODEL 660 LOAD CHEK



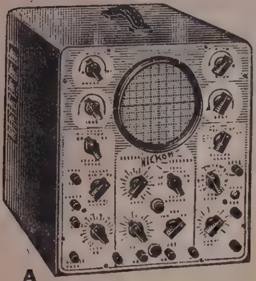
A time-saver. Helps prevent repair come-backs. No time lost in connecting this instrument. Just plug in the power cord of the radio and all meters are connected. Quick way to locate hidden shorts and overloaded circuits. Double meter indication provides simultaneous check of line voltage and power. Shows faulty power line wiring as well as proper functioning of the appliance under test. Simple operation by means of only one toggle switch to change to Watts range. Double range on Watts meter permits one unit to serve from a 5-tube radio to largest television set. Wide open meter window makes for easy reading of both Wattmeters and Voltmeter scale, even under poorly lighted conditions. **RANGES: Watts,** DC-AC 0-500-1000; **Volts,** DC-AC 0-150. Black molded case, 2½" x 5½" x 6". Insulated to protect instrument from ground. Wt. 2 lbs.

Triplett Model 660—Net Each.................... **\$29^{50}**

MODEL 661 LOAD CHEK

Designed for radio and low wattage appliances. Appearance and construction same as 660 with Watt range, 150-300. Net. **\$29.50**

Service Test Equipment by HICKOK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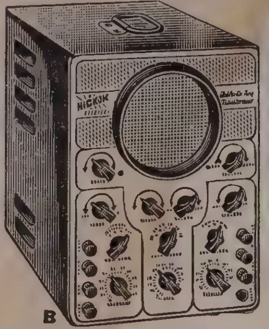
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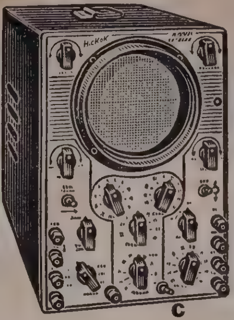
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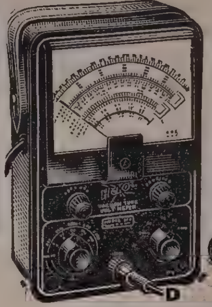
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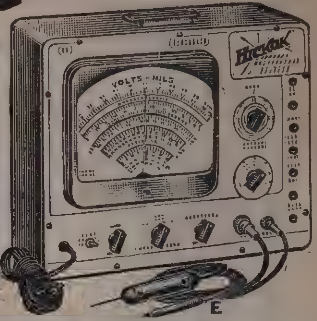
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MODEL 640 OSCILLOGRAPH (FIG. A)

Wide band, (0-4.5 mc. down 3 db) amplifier. Freq. Response O-1mc (3 db point) in HIGH. O-4. in LOW. Max. Imput 1000v peak. Imput Impedance 2 megs, 50 mmf. Built-in calibration voltages 100, 10, 1, & .1 volts. TEST SIGNALS: Line Freq.: 5v RMS inch. Sawtooth: from front panel. Direct connection to both hor. and vert. deflection plates. Expandable sweep 6 times expansion, equiv. to 30″ screen dia. TV fixed freq.; 30 and 7,875. 105-125, V-AC. Portable steel case, 14″ x 11½″ x 19″, Wt. 19 lbs.
Hickok Model 640—Net Each.................... **$355⁰⁰**

MODEL 665 OSCILLOGRAPH (FIG. B)

High-quality 5″ scope for any TV job. Range, 0.5 cps-700kc down 3 db. Square wave response flat 60 cps-100kc. Tilt, less than 1%; overshoot, less than 2%. Accelerating voltage, 1775. Push-pull vertical amp., sensitivity, .020 rms. v./in.; hor amp., .030 v./in. Vert. Input Imp., 2.2 megs at 15 $\mu\mu$f; hor., .1 meg at 52$\mu\mu$f. External plate connections. Sweep osc. range: 18 cps-50kc. Safety fused; CRT shock mounted; drift-free. 105-125v. AC, 35 watts. 13″ x 17¼″ x 9⅝″. Shipping weight, 30 lbs.
Hickok Model 665—With 7 tubes and 5UP1 CRT. Net **$129⁵⁰**

MODEL 670 OSCILLOGRAPH (FIG C)

Hickok Model 670 is designed with DC amplifiers to provide perfect square wave response. Sensitivity: 0.01 RMS/inch. Demodulator circuit for viewing modulation on RF signal; recurrent linear sweep, 3 to 50,000 cps.; reversing switches for both horizontal and vertical deflection. Fixed sweep frequency for hor. and vert. wave forms; negative and positive sync; line frequency phasing control (approx. 180°). Direct-coupled, balanced push-pull amplifiers. Provision for Z-axis modulation. Wide band vertical amplifier to beyond 2mc. Steel case, 9¼″ x 12¼″ x 18″ D. Shipping Weight, 35 lbs.
Hickok Model 670—Net Each.................... **$244⁰⁰**

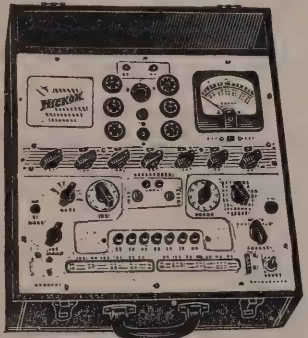
MODEL 215 VACUUM TUBE VOLTMETER (FIG. D)

Includes dual-purpose AC-DC probe. 5″ scale. Zero-Center for fast discr. alignment. DC VOLTS: 0-1.5; 3; 12; 30; 120; 300; 1200. OHMS: x1; x10; x100; x1000; x10,000; x100M; x1 meg. AC VOLTS (peak-to-peak): 0-1.5; 3; 12; 30; 120; 300; 1200. PEAK-PEAK: 3200 volts max. Flat from 40 cps-3.5mc. INPUT IMPED.: with probe, 30 megs shunted by 150 $\mu\mu$f. Accuracy ±5% full scale. Includes test leads. 105-125 VAC. Insulated case, 5¾″ x 8⅜″ x 4½″.
Hickok Model 215—Net Each.................... **$67⁵⁰**

MODEL 539-A TUBE TESTER

Dynamic Mutual Conductance with tube readings in micromhos. All tubes including miniature and subminiatures. Permits choice of 3 AC signals; 0.25, 0.5 & 2.5 volts. Vernier meter reading of grid voltages. Built-in, optional self-bias arrangement. Provision for insertion of plate milliammeter. Separate AC line meter. DC grid bias, DC plate and screen voltages. Strong portable carrying case with detachable cover. 16¾″ x 18⅜″ x 7½″. Shipping wt. 39 lbs. Net Each... **$287⁰⁰**

Also available for same price in steel bench display case. Order Model 539-D.



MODEL 533-AP TUBE TESTER

Dynamic Mutual Conductance tester with new feature that foretells future life of tube. Tests all latest tubes except CRT's. Scale readings in 3 ranges: 0-3000, 0-6000, 0-15000 or in terms of bad, questionable, good. Tests tubes under conditions of actual use. Equipped with push buttons, metal panel and selector switches. Roll chart tube data selector; separate pin-jacks for external grid and plate connections. Include minimum and sub-minimum sockets. 16¾″x18⅜″x7½″. Wt. 35 lbs. Net Each **$185⁸⁰**

Model 533-AC in steel bench display at same price.

MODEL 209A VACUUM TUBE VOLTMETER (FIG. E)

With Zero Center Scale—Electronic Volt-Ohm-Capacity Milliammeter has extra long, easy-to-read 9″ meter scale; low capacity, high frequency probe. With all necessary leads. Flat frequency response to 300 MC. Resistance: 1/10 ohm to 10,000 megohms. Measures voltage to 1200 DC, 300 AC. Capacity: 1 mmf to 1000 MF. High input impedance. 115 V. AC. 14″ x 16½″ x 8″. Shipping weight 19 lbs. In Portable or Display Case.
Hickok Model 209A—Net Each.................. **$132⁵⁰**

MODEL 450 VOLT-OHM-MILLIAMMETER

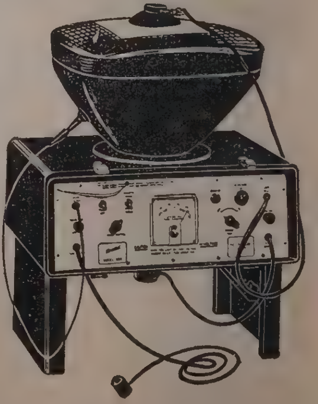
Highly sensitive, compact, portable Volt-Ohm-Milliammeter that fits into a pocket. Thinnest instrument of its kind. Large 5″ Hickok built meter and guaranteed insulated, shock resistant case. **Ohms Per Volt:** 20,000 DC, 5000 AC. **Ohms:** 0 to 1000 meg. (low range ohm scale, 5 ohms center). **Current:** 50 microamps to 10 amps. **Decibels:** −30 to +50. **Volts:** AC-DC, 0 to 5000 in 6 ranges. All pin jacks at bottom of panel. Battery operated. Wt. 2¾ lbs., Shpg. Wt. 5 lbs. 5¾″ x 2½″ x 2¾″.
Hickok Model 450—With test leads. Net Each........ **$46⁵⁰**
Carrying case for above. Net Each.................... **$8.80**

MODEL 600A TUBE TESTER

Mutual Conductance type. Designed for speedy, highly accurate radio servicing. May be used for lab and industrial applications. Tests future life, gas content; reads directly in micromhos. Applies separate voltage to each element; and easily detects weak tubes. Replaceable roll chart gives all data. Black leatherette. 16¾″ x 7½″ x 11¾″ For 110-130 volts, 50-60 cps. Shpg. Wt. 21 lbs.
Hickok Model 600A—Net Each.................. **$164⁰⁰**

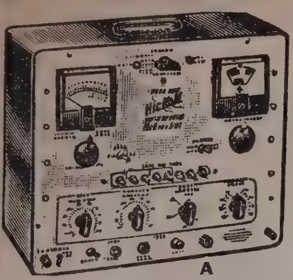
Hickok Model 605A—Combination tube tester and set analyzer. Includes V.O.M. section in 600A tester. Net.................. **$189⁵⁰**

NEW MODEL 590 PICTURE TUBE TESTER



Provides complete testing of TV picture tubes when used with any standard Hickok Dynamic Mutual Conductance Tube Testers. Checks tube for gas, brilliance, emission, shorts, grid control, leakage, condition of phosphor, possible ion burns and probable future life of tube. It lights the tube and puts an actual raster on the face of the tube—no other tube does this. It tests all sizes of electromagnetically deflected picture tubes, both electrostatic and magnetic focus, glass or metal shells, under operating conditions. Tests light output with photoelectric cell, to determine damage to phosphor. Has definite and accurate rejection limits of value in demonstrating overall condition of tube to customer. High voltage, 7000 volts, is sufficient to light aluminized screens. Horizontal sweep frequency is 15,750 cps, nominal sawtooth; vertical is 60 cycle sinusoidal. In convenient red and black, brass fitted carrying case 19½″ wide x 18″ deep x 7½″ high. Net weight 25 lbs., shipping 33 lbs. 105-125 volt, 50-60 cycle AC. 60 watts.
Hickok Model 590—Complete with all necessary leads. Net Each.................. **$218⁵⁰**

Service Test Equipment by HICKOK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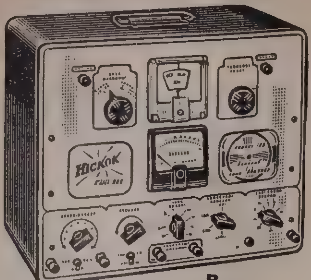

B

NEW 650C WHITE DOT GENERATOR (FIG. A)

Compatible for Color or Black and White TV Receivers. The new White Dot Video Generator is an absolute must for accurate registration adjustment of the three color guns in the new TV color tubes. Simple to operate. Just connect the 650C to the antenna of the color TV receiver and adjust the controls until white dots are produced on the receiver screen. Adjust the color guns until the colored rings disappear from around the white dots. The generator also may be used to adjust the focus, convergence, centering of individual beams, purity yoke, dynamic convergence, linearity and aspect ratio.

Includes All Features of Hickock Model 650 Videometer.
Accurate bar or dot pattern provided. Output directly calibrated in microvolts. Video amplifier with gain of 0-10 db. Crystal controlled timer for pulses of 60, 900, & 15,750 cps, 315kc; singularly or in any combination; positive or negative output. Pulses used directly, metered in peak-peak volts or to modulate RF osc. which covers all TV channels in 2 bands, all on fundamentals 105-125v., 60 cps. 60 watts at 115v. Blue Hammertex steel case, 13″x16″x7″. Inc. test, output and grd. leads, coax cable. Wt. 29 lbs.

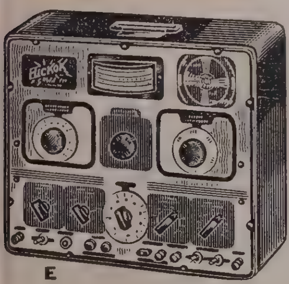
Hickok Model 650C White Dot Generator—
Net Each $318.90

Conversion Kit. Converts Model 650 Universal Video Generator to Model 650C. Completely wired. Net Each **$5.00**

MODEL 695 VHF-FM GENERATOR (FIG. B)

For TV-FM servicing. Thorough check of all IF's permitted by triple-shielding and 0-50mc heterodyned output. Output, .15v.; fundamental of .5v. on all channels. Blanking of osc. gives reference base line. 0-12v. variable DC bias voltage is metered. Continuously variable tuning; 170° of phasing; linear sweep (width, 0-15mc, ±3mc depending on freq.). 100 db atten., .5v. to 5μv. Output Z, 90 ohms. Self-calibrated. Hairline is movable. With all tubes, leads, instructions. 16¼″ x 13¼″ x 8″. Shpg. weight, 31 lbs.

Hickok Model 695—
Net Each $265.00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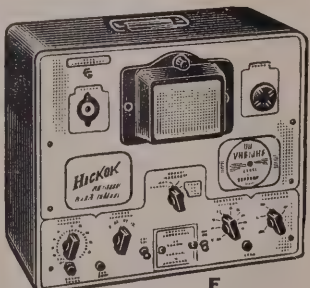

F

MODEL 610A TV ALIGNMENT GENERATOR (FIG. E)

Permits complete visual alignment of TV receivers. Only a scope is required. Overall coverage, 10-25mc, with 0.15mc variable sweep width, for all alignment of RF's to all 12 channels, alignment of sound and video IF's and alignment of traps. Provides both pin oscillator markers and absorption markers, directly calibrated from 20-48mc. Marker injection control. Vernier output control. 5-stage output multiplier control. Provides horizontal sweep voltage (with phasing control). Standby switch. 14″ x 16½″ x 7″. 105-125v. AC. Shipping weight, 35 lbs.

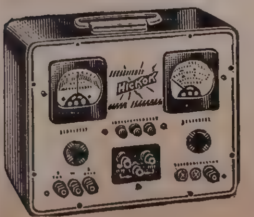
Hickok Model 610A—With 4.5mc crystal. Net Each. $219.00

MODEL 690 UHF-VHF CALIBRATOR (FIG. F)

This new unit supplies dual markers with any sweep generator. Dial features light beam reflected on glass dial, enabling a greatly magnified screen and marker settings within .05%. No parallax, interpolating or beat-counting. Ranges: 4.25-11 mc, 10-50mc, 50-90mc, 115-225mc. 3rd harmonic on UHF channels 14-47, 4th on channels 48-83. Tuning eye indicator. Complete with 2.5mv. crystal and provision for 2 others, tubes, leads, instructions. 16¼″ x 13¼″ x 8″. Shipping weight, 31 lbs.

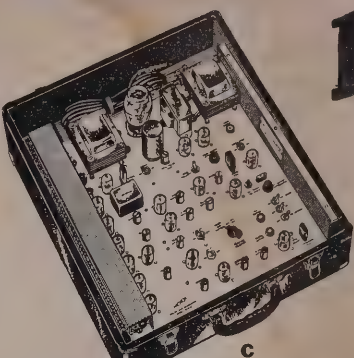
Hickok Model 690—105-125v. AC. Net Each $237.00

MODEL 755 NOISE GENERATOR



For measuring signal-to-noise ratio and noise figure in RF and IF amplifiers, etc. Determines source of snow in fringe areas. Zero-center scale. Electronic voltmeter. Ranges, 0-.25-1v. DC. Flat from 10-250mc. Noise figure ranges: 0-17; 0-19; 0-25 db. Output impedance, 50, 75 and 300 ohms. Complete with tubes. 8½″ x 11″ x 6″. Shipping weight, 18 lbs.

Hickok Model 755—Net $262.00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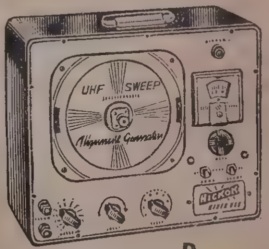
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NEW MODEL 655XC COLOR BAR GENERATOR (FIG. C)

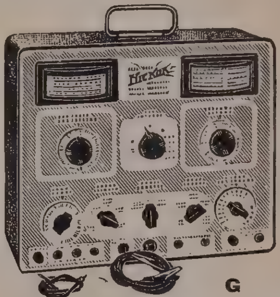
Produces a standard 100% fully saturated NTSC color bar pattern on color TV sets to insure full compatibility regardless of future receiver design. Sets aligned with this type of signal will operate with proper colors on the screen. The color bars will appear on the TV screen from left to right, green, yellow, red, magenta, white, cyan, blue and black. Video output is 0-2 volts peak to peak open circuit, 0-1 volt peak to peak across 100 ohms, positive or negative output. RF output modulated with color bar pattern is available through Channels 4, 5 and 6; sound carrier also is provided. Phase of colors produced is set accurately with precision delay lines. Amplitudes of subcarrier and brightness component set accurately with resistive networks. **Features:** Provision for switching either Y or Chroma on or off; provision for switching on or off either I, Q' R-Y or B-Y. In black leatherette case 16¾″ x 18⅜″ x 7½″ deep. 115 volts, 60 cycles AC, 100 watts.

Hickok Model 655XL—Net Weight 34 lbs. Shipping Weight 42 lbs. Net Each $565.00

MODEL 697 UHF SWEEP GENERATOR (FIG. D)

For UHF TV servicing. Fundamentals on channels 14-83. All electronic linear sweep. RF output, 0.5v. Sweep width 0.25mc at low end; 0-75mc at high end of band. 0-12v. variable DC bias voltage, calibrated output. Amplitude variation less than .1 db/mc. Reference line through attenuation. RF leakage reduced by triple shielding. 170° phasing. 105-125v., 60 cps. 16¼″ x 13¼″ x 10″. With tubes, leads and instructions. Shipping weight, 31 lbs.

Hickok Model 697—
Net Each $300.00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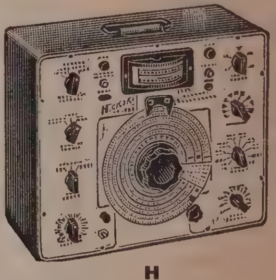
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MODEL 288X SIGNAL GENERATOR (FIG. G)

Hickok Model 288X provides necessary test voltages and frequencies for servicing AM and FM. High FM output, low radiation. Fundamental frequencies, 100 kc, 160 mc. FM section has two separate 7 stage ranges, one for NBFM and the other for wide band. Variable audio output, 0-15 kc. Crystal controlled output, 100 kc and 1000 kc accurate to .01%. DB meter, in 3 ranges, from −10 to +38. 14″ x 16½″ x 8″. Shpg. Wt. 28 lbs. In Portable or Display Case.

Hickok Model 288X—Net Each $195.00

MODEL 292X SIGNAL GENERATOR (FIG. H)

Hickok Model 292X furnishes an accurate, dependable source of calibrated RF from 125 kc-120 mc, 150-220 mc on fundamentals. VTVM provides direct output from ½ to 100,000 μv. on all frequency ranges. Can be used as external db meter. Percent of AM can be controlled and indicated. 100 and 1000 kc crystal controlled output, accurate to .01% with special provision made for crystal control at 152-162 mc, accurate to .005%. Precision ground crystals available at specified ultra-accurate frequencies. VFO range 125 kc-240 mc in 8 ranges. Crystal oscillator may be added, accuracy .005%. Provision made for external modulation. Internal modulation available at 400 cps. 1000 kc crystal accuracy .05% included. Metered output: 1 to 100 microvolts 14″ x 16½″ 8″. Shipping Weight 29 lbs. In Portable or Display Case.

Hickok Model 292X—Net Each $296.00

Hickok Model 292X-AL—Same as above, but with airline frequencies. Net Each $326.00

TELEVISION PROBES

Hickok Model TVP-1—Extends scopes for viewing TV circuits where capacitances of ordinary cables would produce inaccurate wave shapes. With 4-ft. heavy duty cord. Net Each **$12.60**

Hickok Models PR-30-KV and PR-30-KVA—Extends VTVM ranges to 30,000 v. DC. PR-30-KV is for Model 209 or 203PR; PR-30-KVA is for 209A. With 4-ft. Cable.
Net either model **$11.90**

JACKSON Test Equipment

THE '54 MODEL CRO-2 5" OSCILLOSCOPE

VHF—UHF—COLOR

High Sensitivity—Wide Band. .018 RMS volts per inch —within 1 db to 4.5 MC CORRECT COLOR RESPONSE

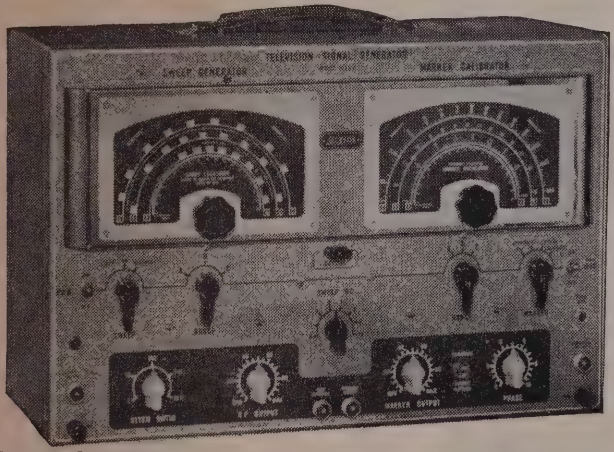
Wide Band Amplifier: Flat within 1 db from 20 cycles through 4.5 mc. This feature is absolutely essential for evaluating color burst signal and the Level of the Color Chrominance signal. **Vertical Deflection Sensitivity:** Two ranges with three positions for each range. Has fully compensated attenuators. Excellent transient response. Each unit completely tested for "tilt" and "overshoot". **Sensitivity Ranges:** With a band width of 20 cycles thru 100 kc, the sensitivity ranges are .018, .18, 1.8 RMS volts per inch. The wide band position 20 cycles through 4.5 mc has sensitiqity ranges of .25, 2.5, 25 RMS volts per inch.

Finish: An all steel gray Ham-R-Tex cabinet.
Model CRO-2—Shipping weight, 32 lbs. Net Each.. $225.00

MODEL CR-P SIGNAL TRACING PROBE

For Model **CRO-2** Cathode Ray Oscilloscope. For demodulating RF and IF voltages to provide visual Signal Tracing.
Model Dem-P—Net Each.............................**$9.95**
Model LC2-IP Probe—Low Capacity Cathode follower probe. Net Each...**$19.95**

MODEL TVG-2 TELEVISION SIGNAL GENERATOR

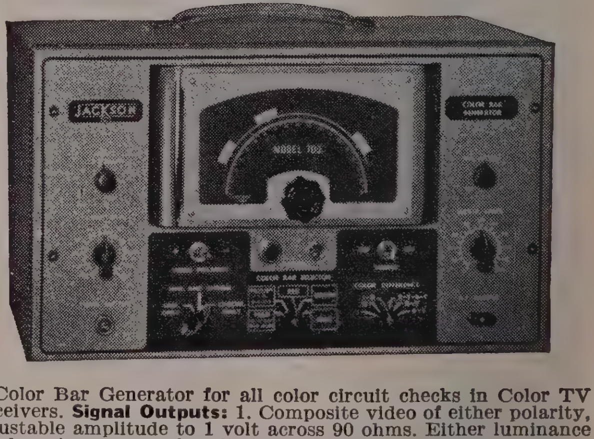


Sweep Oscillator—Three ranges, 2 mc through 38 mc, 38 mc through 108 mc, 174 mc through 216 mc, all on fundamentals. Continuous tuning over all ranges. Reversible direction of sweep.
Sweep Width—Electro-mechanical sweep. Adjustable from .0 mc through 18 mc in 8 steps. Extra width for badly detuned circuits.
Marker Oscillator—Complete marker coverage from 4 mc through 216 mc with highly stable Television IF stages.
Crystal Oscillator—Separate oscillator for use either as marker or calibrator. Stable circuit oscillates on any crystal fundamental from 3 mc to 20 mc. Output controlled by selector switch to provide variable marker, crystal marker or both for calibration purposes. BEAT DETECTOR incorporated for audible or visual checking of beay between marker and crystal.
400 Cycle Modulation—Provided for use with either variable or crystal marker to adjust traps audibly or with meter.
Oscilloscope Timing—Phased 60 cycle sine wave timing voltage is provided with PHASE CONTROL to provide adjustment of double pattern. BLANKING also available for single pattern trace with reference base line for measurement.
Video Modulation—Provision made for insertion of video signal to modulate external marker output. Audio signal may also be used to produce horizontal or vertical lines for linearity checks.
RF Output—Completely controllable with output control and step attenuator. Output impedance 90 ohms.
Size—13" high x 8¼" deep x 19⅛" wide.
Weight—30 lbs.
Model TVG-2—Net Each........................ $259.95

NEW MODEL 712 COLOR BAR/DOT GENERATOR

Complete instrument for color testing, includes all NTSC color signals, plus complete synchronizing. Positive or negative video output, single color bars or multi-bar pattern. RF output for channels 3 through 5. Crystal controlled color and sound oscillators; white dots for 3-gun conversion checks. **Signal Outputs:** (1) Composite video of either polarity, adjustable amplitude to 2 volts across 90 ohms. (2) Modulated RF channels 3 through 5, 0.1 volt across 300 ohms. (3) Horizontal sync., positive polarity, 1 volt across 200 ohms. (4) Color subcarrier, 4 volts across 200 ohms at burst phase. **Synchronizing Signals:** (1) Horizontal sync., and blanking (FCC standards). (2) Vertical sync., serrated and locked to horizontal. (3) Vertical blanking, nominal 900 microseconds. (4) Color burst (NTSC standards). (5) Vertical sync. locked to power line frequency. **Video Signals:** (1) Dots (nominal 108 dots). (2) Crosshatch (nominal 12 by 9). (3) Color bars (5 switch positions). **Sound Carrier:** Approximately 25% of peak picture carrier, placed 4.5 mc from picture carrier. **Panel Controls:** (1) RF carrier tuning, channels 3 through 5. (2) Video output amplitude. (3) Horizontal speed. (4) Standby switch (standby sound on/off). (5) Video output polarity switch. (6) Power switch. (7) Function switch (crosshatch—dots—color bars). (8) Color bar switch (Multi, Color Diff., Red, Green, Blue). **Internal Adjustments:** Burst amplitude, 3.58 frequency vernier and vertical sync. **Dimensions:** 16½" wide, 9½" high, 10¼" deep. Designed to match other Jackson equipment, both in styling and exterior dimensions. **Net Weight:** 27 lbs. **Shipping Wt.:** 32 lbs.
Model 712—Net Each.......................... $395.00

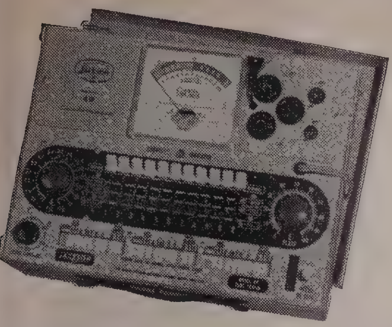
NEW MODEL 700 COLOR BAR GENERATOR



A Color Bar Generator for all color circuit checks in Color TV Receivers. **Signal Outputs:** 1. Composite video of either polarity, adjustable amplitude to 1 volt across 90 ohms. Either luminance or chrominance can be eliminated from the composite signal. 2. Modulated RF, Channels 3, 4 or 5, of 1 volt across 300 ohms. 3. Horizontal sync., positive polarity, 1 volt across 200 ohms. 4. Crystal controlled color subcarrier (3.5795 mc), 40 millivolts across 200 ohms at burst phase. **Synchronizing Signals:** 1. Color burst crystal controlled (NTSC standard). 2. Standard horizontal sync. and blanking signals. **Color Bar Signals:** 1. Simultaneous bar display with luminance and chrominance levels held to ±10%, phase angles to ±5%. 2. Color Difference Displays. Bars of zero luminance selectively available (Phase angles within ±2%). Background for all color difference bars in black, relative chrominance zero. 3. Single Bars, Primary colors, red, green and blue, selectively available. Each bar approx. 60% of screen width, luminance 0.3, chrominance 0.5. **Crystal Controlled Sound Carrier:** Approximately 25% of peak picture carrier, placed 4.5 mc from picture carrier. Sound carrier may be turned off or on at panel control switch. **Panel Controls:** 1. RF tuning, Channels 3, 4 or 5. 2. Video output amplitude. 3. Horizontal lock. 4. Sound On-Off. 5. Video output polarity switch. 6. Power switch. 7. Color bar selector. 8. Horizontal centering. 9. RF attenuator. 10. Luminance-Chrominance selector. **Internal Adjustments:** Burst amplitude, Color separation and modulation percentage. **Dimensions:** 6½" wide x 9½" wide x 10¼" deep all steel case finished in "Jacksonite." Uses 105-125 volts 60 cycles AC. Complete with tubes, crystals, connectors.
Model 700—Shipping Weight 30 lbs. Net Each..... $295.00

JACKSON Test Equipment

MODEL 49 TUBE TESTER



ONE METER. ONE POWER SUPPLY. Tests all modern tubes. Lever-action indicates connected and disconnected pins. Five-inch BAD-GOOD or %-QUALITY meter. Shorts test lamp. Line voltage adjustment. Zig-zag chart for instant location. Scratch-proof case, 14¼″ x 10¾″ x 5⅜″. Weight, 15 lbs. Operates on 105-120 v., 50-60 cps.

Model 49 Tube Tester—The basic unit. Net Each.. $49.95

The Model 49 is the basic unit around which you can build by adding various plug-in accessories listed below.

Model P49B Plug-In Kit—Readies Model 49 for other accessories. Includes 10-contact socket, instructions, shorting plug (so tester can be used alone). Net Each.................... $2.95

Model 49C Filament Current Tester—Three ranges, 500 mils to 5 amps. Shows actual current drawn. Net Each.................................... $14.95

Model 49N High Resistance Shorts Tester—Interelement leakage from 250 M ohms to 2 megohms. Net Each...... $6.95

Model 49R Selenium Rectifier Tester—Tests all selenium rectifiers from 20 to 650 ma at 25 to 300 v. Net Each. $17.95

Model 49S Auxiliary Tube Socket Kit—Has sockets for 4, 5, 6, comb. 7 and submin. 7 and 8 pin tubes. Net Each. $11.95

MODEL 90 TRACE-O-METER

Traces up to 9 conductors or pairs at one time. Eliminates extra trips between cable ends. Does away with buzzers, hummers, earphones, voltmeters and other slow tracing methods. Checks up to 2500 feet or longer of #22 gauge wire. Shows "shorts" and "opens" directly, without guesswork. Indicates AC and DC voltages in "hot" lines. Just attach the numbered tracing blocks at one end of the cable to be traced. As each wire or pair is tested, the indicating meter shows the number of the test block connected to the corresponding wires at the far end of the cable. Thus, where color-coding is absent, mixed up or dulled by age, you still have fast, easy tracing. **Shows Opens and Shorts** instantly on indicating meter. Indicates Voltages—built-in neon lamp shows AC or DC voltages on "hot" wires and, by its brightness, gives an indication of the amount. Shows AC voltage from 60 to 600 and DC voltages from 80 to 600.

Model 90—Net Each.............................. $39.95

MODEL 648 "DYNAMIC" TUBE TESTER

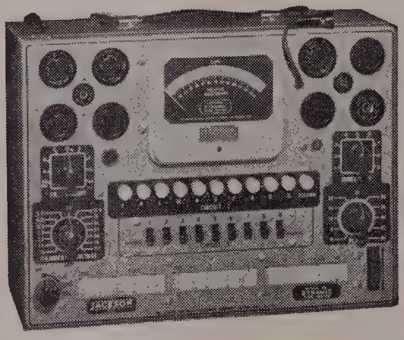
Incorporates the Dynamic test method, sequence switching and automatic line voltage indication. The **Dynamic test circuit** applies separate element voltages. Separate load circuits are used to test tubes under peak conditions. These voltages and loads have been carefully selected for each tube to meet most ideally the normal operating condition of the tube. The current flowing only in the plate circuit of the tube under test is indicated on the 4″ meter. **Sequence Switching** makes possible SIMPLIFIED OPERATION. There are only three controls to be set according to chart listing for each tube: heater voltage, plate control and the Sequence Switch. Only other adjustments are line voltage control and shorts test. Line voltage control calibrated from 100-125 volts. Fast, accurate **Shorts Test** lamp indicates only when tube is shorted. The shorts control moves only through 4 positions—yet tests each tube element. Tested under a heated cathode condition. Correct test voltage and load circuits protect tubes against damage by overload. Even low-voltage battery types are provided with suitable potentials. Full GOOD-BAD scale used for each test. Meter scale calibrated to read percentage of relative micromhos. Special "low scale" readings are not required. Life-line test shows accurate forecast of end of tube life. Reduced output caused by over-age gives reduced reading on meter. Steel cases and panels finished in gray Ham-R-Tex.

Model 648B—Bench-type steel case. Shpg. wt., 19 lbs. Net Each.. $104.50

Model 648P—Portable tester in wood case. Shipping weight, 23 lbs. Net Each.............................. $109.50

Model CB48—Counter Base. Shpg. wt., 6 lbs. Net Each. . **$8.50**

A



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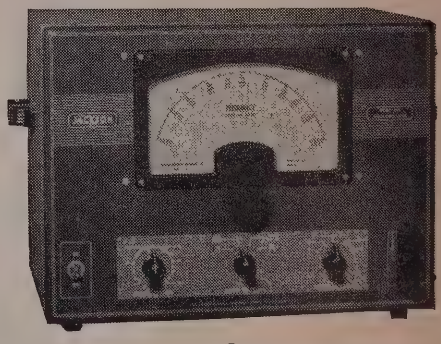


C

MODEL 709 VTVM TELE-VOLTER—FIG. A

Big 7″ sloping front meter. Single probe for all scales. Built-in probe switch changes probe from DC to AC or ohms. Removable alligator clip fits over prod point. Electronic meter guard. Reads directly all AC voltages in RMS, Peak and peak-to-peak values. Maximum scales length, accurate calibration. Expanded Ohms scale gives accurate readings to 1000 megs. Identi-Lite windows light up to show how meter is set; one window shows circuit, the other shows the range. 1-volt scale plus calibrated zero-center. Separate scale for 0-2.8 peak-to-peak volts. Zero center scales may be used on all but one volt ranges. Essentially flat to 4.5 mc through 0-100 scales. DC input, 11 megs. No extra probe needed for high frequency use. Battery or dial lights easily replaced without disturbing rest of instrument through bottom plates. **Ranges:** DC Left-hand Zero; 0-1, 5, 10, 50, 100, 500, 1000 volts. Calibrated Zero Center; .5-0-.5, 2.5-0-2.5, 5-0-5, 25-0-25, 50-0-50, 250-0-250, 500-0-500. AC Volts: RMS Values; 0-1, 5, 10, 50, 100, 500, 1000 volts. Peak-to-peak values, 0-2.8, 14, 28, 140, 280, 1400, 2800 volts. Ohms: 0-1000, 10,000, 100,000 ohms, 0-1, 10, 1000, 1000 megohms. **Tubes:** 1-12AU7; 2-6AL5. 105-125VAC, 50-60 cps. 8¾″ x 8¼″ x 7¼″. Weight, 10 lbs.

Model 709 VTVM—Net Each......................... $95.00

Model 79P—Hi-Voltage probe for DC to 30,000. Net...**$14.95**

Model 70RFP—Hi-Frequency (200 mc) probe. Net Each **9.85**

MODEL 715 CHALLENGER TUBE TESTER—FIG. B

Employs Jackson Dynamic test principle. Push buttons and rotary switches apply separate element voltages and load circuits to each tube. Proper test voltages protect tubes under test. Complete shorts and high resistance leakage test, faults indicated by flashing neon bulb. Heater voltage control shows actual voltage applied. 8 different sockets with blank spares for future types. Simplified, built-in roll chart provided. Jackson supplies free chart service and supplement service for one year after purchase. 4″ square meter has BAD—GOOD and handy reference scale. All-steel gray cabinet. 9½″ x 13″ x 5½″. Weight, 11 lbs.

Model 715—Net Each.................................. $79.50

MODEL 655 AUDIO OSCILLATOR (FIG. C)

Twenty cycles to 200,000 cycles (200 kc) for all audio and low RF requirements. Continuously variable glass enclosed range scale plus four-position switch.

Frequency calibration accurate to within 3%, or 1 cycle. Special RC circuit gives constant sine-wave form without the possibility of beats or spurious oscillation. Less than 5% Harmonic Distortion at all frequencies between 30 and 15,000 cycles, with a frequency characteristic of plus or minus 1 db in this range. Hum level down more than 60 db of maximum power output.

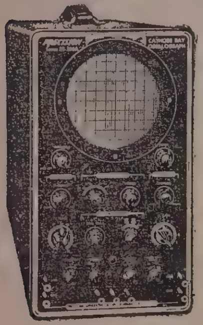
Provides 500 milliwatts with continuous variable control. Output impedances of 10, 250, 500, 5000 ohms or Resistive.

Model 655—Net Each.................................. $135.00

"Precision" Test Equipment

PRECISION TEST EQUIPMENT
Standard of Accuracy

MODEL ES-500A CATHODE RAY OSCILLOGRAPH

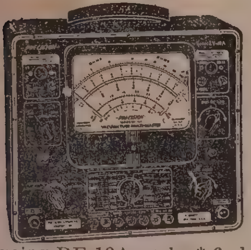


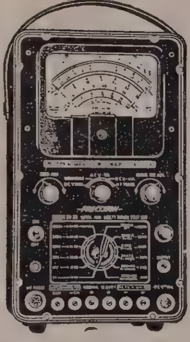
Push-Pull Vertical and Horizontal Amplifiers. Vertical amplifier response to 1 mc. 2 megohm input resistance. Approx. 22 μμf input capacity. Vertical sensitivity .02 volts. Calibrated, compensated input step attenuator to cathode follower circuit insures excellent square wave response at all setting of attenuator. Vertical pattern reverse switch. Horizontal amplifier response to 1 mc. ½ meg. input resistance. Approx. 20 μμf input capacity. Linear sweep from 10 cycles. Built-in 60 cycle blanking and sweep phasing control. "Z" axis beam modulation input. Built-in peak-to-peak voltage calibrator. Shipping Wt., 44 lbs.

Precision Model ES-500A—Black ripple finish steel cabinet, 8¼" x 14½" x 18". Net Each....... **$173.70**

VACUUM TUBE VOLTMETERS

The new Precision EV-20 VTVM and Multi-Range Test Set is a versatile, portable instrument. True "0" center on all VTVM ranges, with direct reading high freq. scales. 48 ranges: to 1200 volts (to 60,000 volts when used with Super-High Voltage Test Probe TV-4*), 2000 megohms, 12 amperes, +63 db. 4⅝" meter 200 microamperes, ± 2%. Complete with coaxial circuit isolating test probe, cable and test leads; ohmmeter battery, 10½" x 6¼" x 5". Weight, 11 lbs. *Not included.
Precision Model EV-20—Net Each.................. **$69.75**

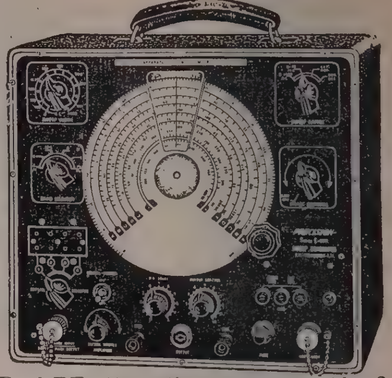




Model EV-10 VTVM—Megohm-meter with extra-large easy-reading 7" meter. 8 "0" center VTVM ranges to ±6000 volts plus 8 AC-DC output voltage ranges; 8 DC current ranges, 8 db ranges. 4 high frequency ranges using RF-10A probe.* 6 ohms ranges to 2000 megs. Size: 10½" x 12" x 6". *Not included.

Precision Model EV-10A-MCP—Black ripple finish steel case. Shipping weight, 17 lbs. Net Each...... **$104.50**

MODEL E-400 SWEEP SIGNAL GENERATOR



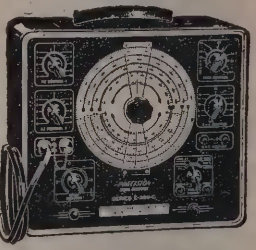
Precision Model E-400 Wide RangeSweep Signal Generator with narrow and wide band for FM and TV alignment. Continuous frequency coverage from 2 mc to 480 mc in 7 bands without break. Variable frequency deviation control: 0-1 mc and 0-15 mc continuous. Phasing control and horizontal sweep output supply provided directly at front of panel. Built-in crystal marker-oscillator with simultaneous insertion of any 4 crystals for marker pips and provision for external variable frequency marker. Dual RF attenuation system provides 2 continuous, stepless, variable attenuators for smooth control of output. Provisions also provide for external AM and deviation input.

Precision Model E-400—Steel, black ripple finish cabinet 10" x 12" x 6". 24 lbs. Net Each............ **$145.00**

Precision Model E-400-PM—Rack panel mount. 12¼" x 19". 25 lbs. Net Each.................... **150.50**

MODEL E-200-C SIGNAL-MARKER GENERATOR

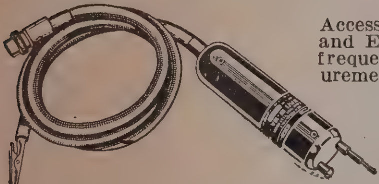
Precision Model E-200-C Signal Generator is a modern multi-band generator for AM, FM and TV. Covers 88kc to 120mc in 8 bands on direct reading dial. Accurate to 1% and high stability on all bands. 400 cycle sine wave audio oscillator; dual RF attenuators; shielded coaxial output cable; direct reading variable modulation from 0 to 100%. AVC-AGC substitution system. Tubes: 1-6SJ7; 1-6C5; 1-5Y3.



Precision Model E-200-C—Black ripple finish steel case, 10½" x 12" x 6". Shipping weight 17 lbs. Net Each........... **$82.50**

Precision Model E-200-C-PM—Rack panel mounting, 12¼" x 19". Shipping weight 20 lbs. Net Each.............. **$88.00**

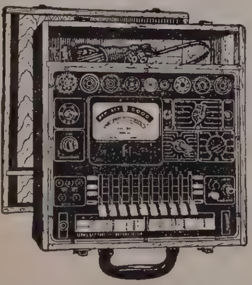
MODEL RF-10A VACUUM TUBE R. F. PROBE



Accessory for Series EV-10A and EV-20; affords direct high frequency peak voltage measurements. Connects directly to vacuum tube voltmeter panel. Does not use any crystal rectifiers. Uses 9002 tube.

Model RF-10A Net Each..... **$14.40**

MODEL 612 CATHODE CONDUCTANCE TUBE TESTER



Precision Model 612 cathode conductance free point, lever operated tube and battery tester tests all modern tubes, including miniature 7- and 9-pin, acorn, dual-capped tubes and ballasts. 4½" meter, 2% accuracy. Dual short-check sensitivity. Noise and condenser tests. Dynamic "under load" test for dry batteries. Roll chart.

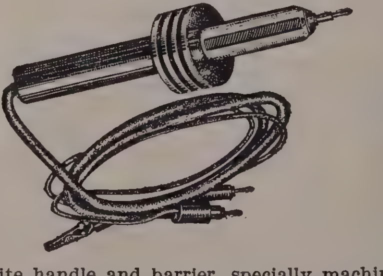
Precision Model 612P—In hardwood portable case, 12" x 13" x 6". Shipping weight 19 lbs. Net Each.............. **$84.50**

Precision Model 612-MCP—Open style metal case, portable. Black ripple finish. 10½" x 12" x 6". Shipping weight 17 lbs. Net Each.. **81.75**

Precision Model 612C—Counter model. 16" x 13½" x 7", sloping to 3" at front. Shipping weight 23 lbs. Net Ea. **87.25**

LIMA—
FOR ALL TEST
EQUIPMENT NEEDS

SERIES TV SUPER HIGH VOLTAGE TEST PROBES



Voltage ranges to 60,000 volts DC with standard VTVM or high sensitivity VOM. Series TV has been custom designed and patent protected for safety first. Cartridge style high voltage tubular multiplier permits use of a single "TV" probe with most popular high sensitivity sets and VTVM's. Custom molded polystyrene head, heavy-duty bakelite handle and barrier, specially machined internal lucite components. High dielectric anti-leakage paths and wide, multi-channeled guard-barrier. Internal and external protective grounding. Full handle length grounded internal flash-over shield. Heavy duty shielded connecting cable. Ceramic, helical film-type cartridge multiplier, removed and changed without tools. Positive grounds and HV connections via high compression contact springs.

Precision Model TVP—Test probe less multiplier cartridge, with .080" pin plug terminations. Net Each..... **$12.35**

Precision Model TVP-A—Similar to TVP above, except terminates in standard screw-on connector for use with most VTVM's. (Less multiplier cartridge.) Net Each....... **$12.35**

Precision Model TV-2—(Illustrated). With 30 KV cartridge for any 20,000 ohm-per-volt test set with 6000 volt range Net Each.. **$14.75**

Precision Model TV-2B—Same as Model TV-2 above except is for use with Model 120. Net Each........... **$14.75**

Precision Model TV-4—With cartridge for ranges to 60 KV for use with Precision Models EV-10A and EV-20. Net Each.. **$14.75**

Precision Model TV-4A—Same as series TV-4 above, except furnished with special adapter for Precision Model EV-10. Net Each.. **$14.75**

Precision Model TVM—Cartridge multipliers only for Series TV.

Megs	Net	Megs	Net	Megs	Net	Megs	Net
225	$4.10	594	$5.50	991	$4.10	1320	$2.75
270	5.50	892	4.10	1080	3.30	1495	5.50
400	3.30	900	4.10	1090	3.30	1585	5.50
450	4.10	950	5.50	1189	5.50	1684	4.10
480	2.75	970	5.50	1225	4.10	2490	4.10
570	5.50	980	4.10	......	......	......	......

General Electric Test Instruments

LABORATORY OSCILLOSCOPE TYPE ST-2A

A high quality 5-inch general purpose laboratory instrument. Size and weight held to a minimum. CRT cradled in rubber and provided with a ¼″ thick safety window. This tube is new type 5UP1. Controls conveniently grouped according to function. Panel simplified by use of a dual control for sweep oscillator. Specially designed input attenuator to vertical amplifier will faithfully attenuate voltages by as much as 1000 to 1 without frequency discrimination. Vertical input circuit handles direct voltages. Adequate drive from deflection amplifiers enables expansion of pattern to several times diameter of tube. DC coupled output stages. Wide frequency response obtained without peaked amplifier coupling circuits. Straight resistive coupling is used. All low-level amplifier and sweep stages are supplied with DC operating potentials from an electronically regulated power supply. Standard voltage source available from front-panel pin-jack, calibrated in seven steps from .3 to 300 volts. Intensity of beam may be modulated from "Z" axis input jack located on rear of chassis. **Input Impedance:** (Vertical) AC, 1 meg shunted by 36 μμfd; DC, 1 meg shunted by 80 μμfd at maximum gain; Probe, 1 meg shunted by 10μμfd. (Horizontal) 10 megs shunted by 35 μμfd. (Deflection plates) vertical, 5 megs shunted by 11 μμfd; horizontal, 5 megs shunted by 11 μμfd. **Frequency Response:** (Vertical amplifier) Probe and AC, +0, −20% from 20 cps to 500kc (square wave response 60 to 40,000 cycles); +0, −50% from 20 cps to 1 mc. with gradual reduction in response beyond 1mc.; DC, +0, −20% from 0 to 500kc at full gain setting. (Horizontal amplifier) from 0 to 100kc at full gain to −20% from 20 cps to 100kc at any gain setting. **Sensitivity:** (Vertical) AC Input, .015 volts RMS per inch; DC Input, 2.0 volts DC per inch; Probe, .20 volts RMS per inch. (Horizontal) .4 RMS volts per inch. Maximum Input Potential: 500V peak, vertical or horizontal. **Sweep** Range: 10 cycles to 100kc in 6 overlapping ranges. **Linearity:** Vertical and Horizontal—less than 10% non-linearity at full-scale deflection. **Sweep**—less than 15% non-linearity over 80% of forward sweep.

FREQUENCIES TO 3MC

EXCEPTIONAL STABILITY

WIDE FREQUENCY RESPONSE

DC AMPLIFIER

EXCELLENT LINEARITY

Z AXIS INPUT

CALIBRATING VOLTAGES

GENERAL ELECTRIC

Power—105-125 volts AC, 50-60 cycle, 100 watts. **Size:** 15½″ high x 10″ wide x 17″ deep. Weight, 43 lbs.

GE Type ST-2A—Complete with all tubes and 5UP1. Net Each........................ **$327 50**

TYPE 103J229G1—Low capacity probe for use with Model ST-2A Oscilloscope above. Net Each.................... **$9.95**

TYPE 112J910—Rack Mounting for ST-2A. Net Each. **31.95**

SWEEP GENERATOR TYPE ST-4A

GENERAL ELECTRIC

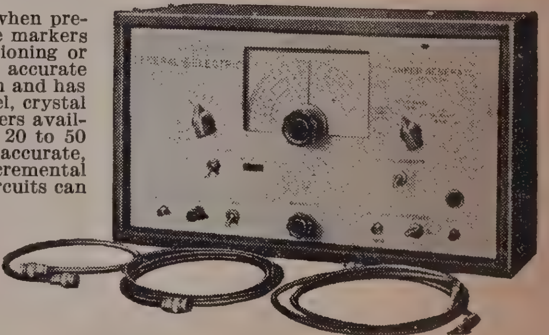
Highly accurate, using a variable permeability type of linear sweep which is exceptionally wide and obtained by electronic means. High output voltage over entire range, with higher output in high TV channels. Beat output used on low bands and direct output on high bands. Covers a frequency range from 4 to 110 mc and 170 to 220 mc, through use of 2 oscillators. 5-step attenuator and one Vernier attenuator provided as well as output jacks for horizontal sweep voltage and input for associated generator marker. Complete shielding, double filters on leads. The unit is supplied in a picture frame type case with the panel slotted so that the equipment can be removed and mounted in the standard 19-inch relay rack. When the unit is rack mounted leakage is not affected as the case is not a part of the shielding. **Frequency Range:** Continuously variable from 4 to 110 mc and 170 to 220 mc. **Sweep Width:** Linear from 500 kc to greater than 15 mc. **Output Voltage:** Greater than 0.1 volts from 4 to 110 mc. Greater than 0.5 volts from 170 to 220 mc. **Output Impedance:** 20 to 50 ohms dependent on setting of attenuator. **Attenuation:** Continuously variable from maximum output to 20 microvolts. **Leakage:** Stray fields, less than 10 microvolts indicued in a 2-inch loop 6 inches from the case in any direction. **Phase Control Range:** Greater than 360°. **Power:** 105-125 volts, 50-60 cycles, 100 watts. **Tubes:** 3-6J6; 1-5Y3. **Size:** 10¾″ high x 19¼″ wide x 10″ deep. Weight, 30 lbs.

GE Type ST-4A—Complete with tubes and rectifier. Net Each...... **$395 00**

TYPE ST-8A—Output adaptor. Converts single-ended output of generator to a balanced output for working into a 300 ohm resistive load. Net Each.... **$16.90**

MARKER GENERATOR TYPE ST-5A

Use to mark specific frequency locations on a tuned circuit response curve when presented on an oscilloscope. This new equipment permits the use of one to five markers simultaneously, at the same time permitting complete freedom of the positioning or the bank of markers in the frequency range from 20 to 50 mc. It supplies accurate markers for the twelve available TV channels. Designed for fast manipulation and has crystal controlled accuracies throughout. Separate crystal for each TV channel, crystal selected by rotary switch, no tuning required. Picture and audio carrier markers available simultaneously. IF Ranges: continuously variable in three ranges from 20 to 50 mc, only one dial setting required for complete receiver alignment. Extremely accurate, easily checked against harmonics of the 4.5 mc crystal. The dial has an incremental adjustment for setting to the exact calibration point. Pass band and trap circuits can be aligned in one operation. No radio frequency output—markers are not passed through the circuit under test, hence no distortion. Standby switches allow individual activation of the markers. The 4.5 mc crystal is available independently for alignment on intercarrier sound. Extreme mechanical stability and good appearance. **Tubes:** 1-12AT7; 2-6C4; 2-OA2; 2-12AU7; 1-5Y3. **Size:** 10¾″ high x 19¼″ wide x 10″ deep. Weight, 37 lbs.



GE Type ST-5A—Complete with tubes and cable. Net Each... **$439 50**

Channel crystals for ST-5A—Specify channel. Net Each......... **$15.00**

TV CHANNEL SWEEP GENERATOR TYPE ST-11A

A laboratory quality turret-type sweep and marker generator. Covers the 12 VHF TV channels. Employs unusually wide linear variable permeability sweep. The "birdie"-type markers are crystal-controlled and will appear at any desired point on the response curve. Other markers, in addition to the picture carrier marker are available simultaneously to provide the audio, traps and other useful frequency locations. Only two front-panel controls: one, the channel selector; the other, the attenuator. Wide linear sweep, wide frequency coverage, good attenuation and extremely low leakage. High output at the desired frequency. Return sweep blanking available to provide zero reference. Uses standard type tubes. Separate crystal for each TV channel, selected by rotary switch, no tuning required. No radio frequency output markers not passed through circuit under test, hence no distortion of the response curve. Bandwidth, phase and similar controls located inside case and accdssible to a line set-up either from rear or through top cover. **Sweep Width:** maximum at least 8.5 mc to 13 mc, channels 2-13 respectively. Internally adjustable from essentially 0 to maximum in 7 steps. Affects all channels proportionately. **Attenuator:** piston-type variable capacity, rack and pinion drive. From 0 to more than 100db. **Output Cable:** 300 ohm shielded twin lead. **Amplitude Modulations:** .1db per megacycle, maximum. **Output Voltage:** approx. max., open circuit, .28 volt; with isolating pad, 72 ohms, 1 volt; 300 ohms, .15 volt. **Size:** 16″ high x 22″ wide x 14¾″ deep. Weight, 95 lbs. 105-125 volts 60 cps, 110 watts.

GE Type ST-11A—Net Each..................................... **$995 00**

EICO LABORATORY PRECISION INSTRUMENTS & KITS

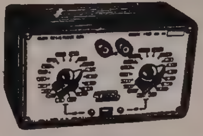
221

232 with Uni-Probe

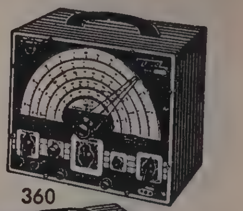
944

315

377


1100

5 MC-4.5 MC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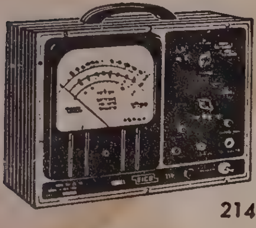
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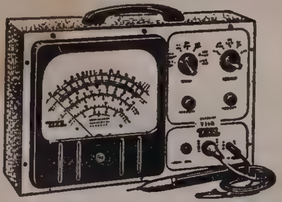
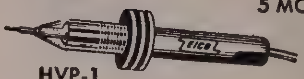
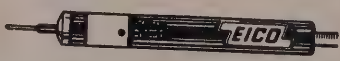

249 with Uni-Probe


HVP-1

HVP-2


PTP-11-25 PRF-11-25

320 322

HIGH QUALITY VTVM'S

MODEL 232 WITH UNIPROBE

Measures directly peak-to-peak voltage of complex and sine waves: 0-4, 14, 42, 140, 420, 1400, 4200 volts. DC/RMS sine volts: 0-1.5, 5, 15, 50, 150, 500, 1500 (up to 30,000 volts with HVP probe and 250 mc with PRF probe). Ohms: 0.2 ohm to 1000 megs. 7 non-skip ranges on every function. Calibration without removing from cabinet. 4½" meter can't burn out. Zero center. Frequency response: 30 cps—3 mc (up to 250 mc with PRF probe). Exceptional stability and accuracy. Compact, in 7" x 5" x 4" gray wrinkle steel case. Leather handle. Complete with dual-purpose AC/DC Uni-Probe. One probe performs all functions—half turn of probe tip selects DC or AC-ohms.

Model 232 VTVM—With AC/DC Uni-Probe. Wired and ready to use. Net Each.................... $49.95

Model 232-K VTVM Kit—Same as Model 232, but is in kit form, ready to assemble. Net Each........... $29.95

MODEL 249 WITH UNI-PROBE

Same features as Model 232 above PLUS the extra convenience of the large 7½" dial for ease of reading. Also includes the dual purpose AC/DC Uni-Probe. An ideal bench instrument.

Model 249 DeLuxe VTVM—With Uni-Probe. Wired and ready to use. Net Each. $59.95

Model 249-K DeLuxe VTVM Kit—Net Each............... $39.95

MODEL 221 VTVM

A popular, reliable, performance-proven instrument—over 50,000 now in use. 4½" meter can't burn out. Zero center for TV/FM discriminator alignment. AC/DC volts: 0-5, 10, 100, 500, 1000 (up to 30,000 with HVP probe, up to 250 mc with PRF probe, and peak-to-peak with PTP probe) Ohms: 0.2 ohm to 1000 megs. DB: −20 to +55. Input R: 25 megs. 1% precision multipliers. Stable, accurate double-triode bridge circuit. 3-color etched panel. Steel case.

Model 221 VTVM—Wired, ready to use. Net Each........ $39.95

Model 221-K VTVM Kit—Ready to assemble. Net Each.. $25.95

MODEL 214 DELUXE VTVM

Same versatility and quality features as Model 221 above PLUS the extra convenience of the big 7½" meter. Ideal for the bench.

Model 214 DeLuxe VTVM—Wired ready to use. Net Each.. $54.95

Model 214-K DeLuxe VTVM Kit—Ready to assemble. Net... $34.95

PROFESSIONAL QUALITY TEST AND ALIGNMENT INSTRUMENTS

MODEL 320 RF SIGNAL GENERATOR

A versatile professional signal generator. Fundamental freq. range 150 kc to 34 mc, calibrated harmonics to 102 mc. RF output attenuator 6-to-1 vernier dial. Modulated or unmodulated RF output: Over 100,000 microvolts. AM Freq.: Approx. 400 cps. Audio Output: 1½-2 V. 105-125 volts, 50-60 cycle AC. 8" high x 10" wide x 4¾" deep. Weight 10 lbs.

Model 320 RF Signal Generator—Factory wired ready to use. Net........................ $29.95

Model 320-K Kit—Above in kit form ready to assemble. Net Ea. $19.95

MODEL 322 RF SIGNAL GENERATOR

All features above plus individual calibration on each of its 5 bands.

Model 322 RF Signal Generator—Factory wired ready to use. Net........................ $34.95

Model 322-K Kit—Above in kit form ready to assemble. Net Ea. $23.95

MODEL 315 DELUXE RF SIGNAL GENERATOR

DeLuxe in every detail. Bandspread vernier tuning. Illuminated dial with anti-backlash, gear driven pointer under glass. VR tube regulated power supply for accuracy and stability. Freq. range: Fundamentals 75 kc to 50 mc in 5 ranges; calibrated harmonics 13 to 150 mc in 2 ranges. RF output: Over 100,000 microvolts. AM Freq.: 400 cps. Provision for external modulation. 105-125 volts, 50-60 cycle AC. 13" high x 12" wide x 7". Weight 21 lbs.

Model 315 DeLuxe RF Signal Generator Factory wired ready to use. Net Each.................. $59.95

Model 315-K Kit—Above in kit form ready to assemble. Net Ea. $39.95

MODEL 377 SINE AND SQUARE WAVE AUDIO GENERATOR

Combines professional quality sine and square wave audio generators into one compact, economical unit. Resistance-capacitance (Wien bridge) tuning circuit with 1% precision resistors and 4-gang tuning condenser. Constant output over wide range: Sine Wave 20-200,000 cps in 4 bands; Square Wave 60-50,000 cps (5% tilt at 60, 5% rounding at 50,000 cps). Calibration accuracy: 3% or 1 cps, whichever is greater. Freq. Resp. 1.5 db, 60-150,000 cps. Output: 10 V across 1000 ohms rated load (100 milliwatts), 8 V across 500 ohms and 14 V across 10,000 or higher. Distortion: Less than 1%. Hum: Less than 0.4% of rated output. 105-125 Volts, 50-60 cycle AC. 7⅛" high x 11⅛" wide x 7⅝". Weight 20 lbs.

Model 377 Sine and Square Wave Generator—Wired, ready to use. Net Each.................. $49.95

Model 377-K Kit—Above instrument ready to assemble. Net Each.................... $31.95

944 FLYBACK AND YOKE TESTER

A precision instrument for quick positive testing of flybacks and yokes in or out of the set. Uses sensitive grid-dip principle—shows up even 1 shorted turn. Exclusive separate calibration for air and iron core flybacks. Checks any inductance of not too low impedance; also for general continuity testing. 4½" 50 microampere meter, 3 colored scales. 7" x 5" x 4".

Model 944 Flyback and Yoke Tester—Wired, ready to use. Net Each.................. $34.95

Model 944-K Kit—Above in kit form ready to assemble. Net Ea. $23.95

MODEL 1100 RESISTANCE SUBSTITUTION BOX

A means of rapidly substituting a wide range of RTMA resistance values in an operating circuit to determine the resistance required for best performance. Determining value of badly burned or illegible resistors by substitution. Ranges: 15 ohms to 10 megohms in decade multiples 15, 22, 33, 47, 68 and 100 ohms. 3¾" x 6½" x 3½". Weight 2 lbs.

Model 1100 Resistance Substitution Box—Factory wired, ready to use. Net Each.................. $9.95

Model 1100-K—Above in kit form ready to assemble. Net Each..... $5.50

360 TV/FM SWEEP GENERATOR

Covers all VHF TV/FM channels and IF frequencies: 500 kc-228 mc on fundamentals. Continuous sweep width control, 0-30 mc. Xtal marker oscillator. Variable phasing of 60 cps output. Provision for injection of ext. marker.

Model 360 TV/FM Sweep Generator—Wired, ready to use. Net Each.................. $49.95

Model 360-K Kit—Above in kit form ready to assemble. Net Ea. $34.95

Precision 5 mc and 4.5 mc Xtals. For above. Net Each............ $3.95

PROBES FOR VTVM'S

Model HVP-2 High Voltage Probe—Measures up to 30,000 V DC with any VTVM or 20,000 ohms/volt VOM. Choice of high quality multiple resistor to match most instruments. Net Each $4.95

Model HVP-1 High Voltage Probe—Similar to above but with clear lucite nose, black bakelite handle and disc barriers. Net Each.................. $6.95

Model PTP-11-25 Peak-to-Peak VTVM Probe—Accurate reading of p-p voltages on DC scale of any 11 or 25 megohm VTVM. Traces complex waveforms in TV deflection circuits. Net Each.................... $6.95

Model PTP-11-25 Kit—Above probe in kit ready to assemble. Net Each.................... $4.95

Model PRF-11-25 Probe—For RF voltage measurements to 250 V with any 11 or 25 megohm VTVM. Accuracy ±10%. Net Each $4.95

Model PRF-11-25-K Kit—Above in kit ready to assemble. Net Each.................... $3.75

EICO LABORATORY PRECISION INSTRUMENTS & KI

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950B

AM-FM RADIO, TELEVISION AND ELECTRONIC SERVICE INSTRUMENTS

MODEL 425 5" OSCILLOSCOPE

Push-Pull Vertical and Horizontal amplifiers. High V & H sens.: 0.05-0.1 rms v/in. V & H resp.: 5 cps-500 kc. Useful to 2.5 mc. Sweep: 15 cps-75 kc. Z-axis intensity mod. Direct connect. to CRT plates.

Model 425 5" Oscilloscope—Wired and ready to use. Net... $79.95

Model 425-K Kit—Above in kit form ready to assemble. Net. $44.95

MODEL 470 7" OSCILLOSCOPE

High sensitivity at wide band width. Vertical: Flat ±2 db 10 cps-1 mc, 0.01 rms v/in. Horizontal: Flat 10 cps-200 kc, −4 db at 500 kc, 0.3 rms v/in. Sweep 15 cps-100 kc. 3-step freq. comp. attenuator. K-follower inputs and p-p outputs in both amplifiers. Return trace blanking, var. phasing of 60 cps sine sweep, int. voltage calibrator direct connect. to CRT plates; int. mod. input, sawtooth from sweep osc. and 60 cps outputs.

Model 470 7" Oscilloscope—Wired and ready to use. Net.. $129.50

Model 470-K Kit—Net Each...$79.95

MODEL 495 VOLTAGE CALIBRATOR

Converts oscilloscope into wide-range peak-to-peak, AC electronic voltmeter. Measures p-p voltage of complex TV waveforms on scope. Calib. of vert. and horiz. scope amplifiers. Square wave output at power line freq. attenuated by a calibrated smooth attenuator and a 4-step decade attenuator composed of 1% resistors. Output variable from zero on every range with full-scale readings of 0.1, 1, 10 and 100 volts p-p. Accuracy ±5% of full scale on each range. VR tube regulated power supply.

Model 495 Oscilloscope Voltage Calibrator—Wired, ready to use. Net Each.................... $17.95

Model 495-K Kit—Net Each...$12.95

MODEL 488 ELECTRONIC SWITCH

Simultaneously view two patterns on one scope. Compare voltage and current amplitudes, waveforms, freq. and phase relationships, set up voltage ref. level or zero base line. Check amplifier dist. Cont. variable switching rates from less than 10 cps to over 2000 cps. Use as square wave generator.

Model 488 Electronic Switch—Net Each.................. $39.95

Model 488-K Kit—Net Each...$23.95

OSCILLOSCOPE PROBES

Model PSD Demodulator Probe—Demodulates amplitude-modulated carriers between 150 kc and 250 mc. Net $5.75

Model PSD-K Kit—Net Each.... 3.75

Model PD Direct Probe—Trace waveforms in low Z or low freq. circuits. Eliminates stray pickup. Net Each....$3.95

Model PD-K Kit—Net Each..... 2.75

Model PLC Low Cap. Probe—TV waveform tracing in high Z, high frequency or wide-band circuits. Net Each.....$5.75

Model PLC-K Kit—Net Each.... 3.75

PROFESSIONAL MULTIMETERS

Model 536 1000 Ohms/Volt Multimeter

Low priced Multimeter with 31 full scale ranges: AC/DC Volts: 0-1, 5, 10, 50, 100, 500, 5000. AC/DC Current: 0-1, 10 ma, 1 A. Ohms: 0-500, 100K, 1 meg. 6 DB ranges: −20 to +69. 3" 400 μa meter movement. Bakelite case.

Model 536 Multimeter—Wired and ready to use. Net Each.... $14.90

Model 536-K Kit—Net Each...$12.90

Model 526 Multimeter—As above but with 1% precision resistors. Net $16.90

Model 526-K Kit—Net Each... 13.90

Model 566 1000 Ohms/Volt Multimeter—Wide range meter for servicing radios and appliances. 38 full-scale ranges. AC/DC Output V.: 0-1.5, 10, 50, 100. 500, 5000. AC/DC Current: 0-1, 10 ma; 0.1, 1 a Ohms: 0-500, 100K, 1 meg. 6 DB ranges: −20 to +69 4½" 400 μa meter movement. Bakelite case.

Model 566 Multimeter—Wired and ready to use. Net Each.... $18.95

Model 566-K Kit—Net Each...$14.90

Model 556 Multimeter—As above but with 1% precision resistors. Net $23.50

Model 556-K Kit—Net Each... 16.90

Model 565 20,000 Ohm/Volt Multimeter—Wide range meter for radio, TV and electronics field servicing. 31 full-scale ranges. DC/AC output V: 0-2.5, 10, 50, 250, 1000, 5000. DC Current: 0-100 μa; 10, 100. 500 ma; 10 A. Ohms: 0-2000, 200K, 20 meg. 5 DB ranges: −12 to +55. 4½" μa meter movement.

Model 565 Multimeter—Wired and ready to use. Net Each.... $29.95

Model 565-K Kit—Net Each...$24.95

Model 555 Multimeter—As above but with 1% precision resistors. Net $34.95

Model 555-K Kit—Net Each... 29.95

MODEL 625 TUBE TESTER

Tests all conventional TV tubes. 10 individual lever-type element switches. 4½" meter, 3-color scale. Illuminated anti-backlash "Speedroll" roll chart. Protective overload bulb. Line-adjust control. 2 grid caps. Blank socket for future tube types. Pilot light test socket.

Model 625 Tube Tester—Net.. $49.95

Model 625-K Kit—Net Each...$34.95

Model CRA Pix Tube Adapter—Permits testing of TV Picture Tubes with Model 625 Tube Tester. Net Each......$4.50

MODEL 630 CATHODE RAY TUBE CHECKER

Tests all types and sizes of TV and scope tubes. Bridge measurement of peak beam current (proportional to screen brightness), using neon lamp as sensitive balance indicator. Balancing control calibrated directly in terms of tube condition.

Model 630 Cathode Ray Tube Checker—Net Each.......... $24.95

Model 630-K Kit—Net Each...$17.95

MODEL 352 BAR GENERATOR

Operates on Channels 2-6, 16-23 vertical bars (int. adj.) to check HOR. linearity. 13-22 horizontal bars (panel adj.) to check VERT. linearity. Shows picture size and V & H sync circuit stability. Output: 400,000 μv. Connects to antenna terminals of any set with special antenna clip. Entirely independent of station transmitted signals.

Model 352 Bar Generator—Net. $19.95

Model 352-K Kit—Net Each...$14.95

MODEL 145 MULTI-SIGNAL TRACER

A low-cost Multi-Signal Tracer that audibly traces all IF, RF, video and audio from antenna to speaker or CR tube without switching. Germanium xtal diode probe response well over 200 mc. Provision for tracing with VTVM or scope. Use as substitute speaker or amplifier, etc.

Model 145 Multi-Signal Tracer Net Each.................. $28.95

Model 145-K Kit—Net Each...$19.95

MODEL 147 DELUXE MULTI-SIGNAL TRACER

High gain RF and low gain audio channels with both visual and aural monitors (electron ray tube and 5" speaker). Permits RF, IF and audio signal tracing in TV, FM and AM sets. Noise localizer circuits apply DC test voltage through probe to suspected component and simultaneously picks up and amplifies effect. May be connected as test speaker, output transformer and has output for VTVM or scope. Calibrated watt meter (fused) detects abnormal total wattage consumption in equipment under test. Shielded RF crystal in audio probes provided. Hum-balance control.

Model 147 DeLuxe Multi-Signal Tracer—Net Each...... $39.95

Model 147-K Kit—Net Each...$24.95

MODEL 1711 DECADE RESISTANCE BOX

Exceptionally accurate, wide-range, versatile instrument. 0-99,999 ohms in 1-ohm steps. 5 decades and ½% precision.

Model 1171 Decade Resistance Box—Net Each.............. $24.95

Model 1171-K Kit—Net Each..$19.95

MODEL 1180 DECADE CONDENSER BOX

Precision silver-mica capacitors (±1% accuracy, 500 V DC rated), arranged in 3 decades for extremely wide range of 100 mmf to 0.111 mf in steps of 100 mf. Positive detent ceramic wafer switches. Silver-plated contacts.

Model 1180 Decade Condenser Box—Net Each................ $19.95

Model 1180-K Kit—Net Each..$14.95

MODEL 1050 6-VOLT AND 12-VOLT BATTERY ELIMINATOR AND CHARGER

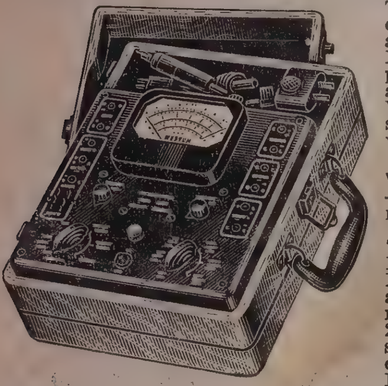
2 DC ranges: 0-8 V (10 A continuous, 20 A intermittent); 0-16 V (6 A continuous, 12 A intermittent). Continuous voltage adjustment: variac-type transformer. Separate voltmeter and ammeter. Heavy-duty selenium rectifier. Fused primary; automatic reset circuit breaker opens secondary circuit on overload.

Model 1050 Battery Eliminator and Charger—Net Each....... $38.95

Model 1050-K Kit—Net Each..$29.95

Weston Test Instruments

MODEL 769 HIGH FREQUENCY ANALYZER



This versatile instrument combines, in one analyzer, a conventional Volt-Ohm-Milliameter, a high impedance Volt-Ohmeter, and a stable probe-type VTVM with RF and special DC probes provided.

RANGES

Volt-Ohm-Milliameter—DC and AC volts, 6 ranges 3 to 6000 volts (DC to 6000 with Model 766 Televerter Type 4). DB, 6 ranges −6 to +62. DC current, 300 microamps, 6 ranges 1.2 to 600 ma. Resistance 2000/ 20,000/ 200,000 ohms full scale, 20/ 200/2000 ohms center scale. Accuracy DC ±3%, AC ±5%.

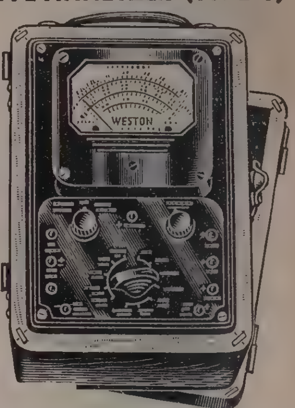
Vacuum Tube Voltmeter—AC volts, 4 ranges 3 to 120. DB— 4 ranges −6 to +42. Accuracy ±5%, 50 to 150 mc, ±12% (±8% with correction curve) 150 to 300 mc.

Electronic Volt-Ohmmeter—DC volts, 6 ranges ±3 to 1200. Resistance 2/20/2000 megohms, 2000/20,000/200,000 ohms on full scale. 20 megohms 20/200/2000/20,000/200,000 ohms center scale. Voltmeter resistance 15 megohms all ranges. Accuracy ±4% of full scale all ranges.

RF Probe—Frequency range 50 cycles to 300 megacycles. Input resistance, 5 megohms. Input capacity, approximately 5 micro-microfarads.

DC Probe—Special DC probe containing a 3 megohm resistor is provided for measuring DC potentials in the presence of RF, AF or AC voltages. All electronic DC ranges are also operable with the standard Weston test leads supplied with the instrument. The Analyzer operates on 105-130 volts, 50-60 cycles AC external power and is not influenced by line voltage variations. Complete stability is attained on all ranges from 3 to 1200 volts and 2000 ohms to 2000 megohms full scale. This stability is attained through use of a unity gain DC amplifier which incorporates both regeneration and degeneration drift on all ranges. There is less than 1% DC zero drift on all ranges with line voltage variations from 105 to 130 volts, 50-60 cycles.AC. Size 10 x 13 x 6⅛″.
Weston Model 769—Analyzer. Weight 13½ lbs. Net. $\$247^{50}$

MODEL 779 SUPER-SENSITIVE ANALYZER (TYPE 1)



Model 779 is an ultra-sensitive 26-range portable analyzer. It covers 5 DC voltage ranges at a sensitivity of either 1000 or 20,000 ohms per volt. Fully AC temperature compensated. Precision resistors throughout the circuit. Servicemen and technicians find it ideal for measurement of tube circuits, as in electronic receivers, transmitters and electronic control equipment: for television and wire communications systems; power level in decibels in high fidelity and other audio equipment, public address systems, telephone or speech lines; maintenance of electronic control and alarm systems; checking leakage of condensers; measuring resistance in all types of circuits.

RANGES

DC Voltage: 2.5, 10, 50, 250 and 1000 volts. AC Voltage: 2.5, 10, 50, 250 and 1000 volts. Current, DC only: .1, 1, 10, 50 and 250 ma and 1 and 10 amps. Decibels: −14 to +2 substantially flat to 10,000 cps, −2 to +14 substantially flat to 10,000 cps, +12 to +28 substantially flat to 10,000 cps, +26 to +42 substantially flat to 3000 cps, +38 to +54 substantially flat to 1000 cps, (6 milliwatts, 500 ohms, zero level). Ohms: 0-3000, 0-30,000, 0-3000,000 and 0-30 megohms.

Accuracy: AC within 3%. DC within 2% to 250 volts and 3% on the 1000-volt range.

A highly useful instrument because of its compact size and portability. It is supplied in a sturdy oak case designed to withstand heavy wear. The oak cover is removable. Convenient carrying handle. Standard test leads are provided. If higher voltages than those above are to be tested, order the Weston Model 766 Televerter leads listed below. Dimensions: 6⅜″ x 9⅛″ x 4⅞″.
Weston Model 779—Portable Analyzer. Wt. 6 lbs. Net Each.................................... $\$127^{50}$

MODEL 697
VOLT-OHM-MILLIAMMETER

This instrument has a good selection of ranges to cover the majority of measurements required in electrical and electronic equipment. Small enough for portable use. Accurate to 2% D-C, 5% A-C. Scale length is 2.36 inches.

Ranges—0-7.5/15/150/750 a-c and d-c (1000 ohms per volt).

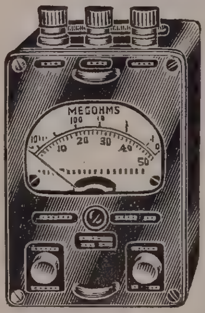
Current—0-7.5/75 Milliamperes d-c.

Resistance—Full Scale, 5000/500,000 ohms; Center Scale, 35/3500 ohms.

Size—5-9/16″ x 3¾″ x 3-9/16″. Approx. weight 1¾ lbs.

Weston Model 697—(Incl. test leads.) Net Each.......... $\$49^{50}$

MODEL 799
INSULATION TESTER



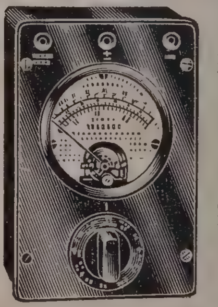
This compact insulation tester is used for leakage measurements on motors, radio components and other applications requiring resistance measurements up to 10,000 megohms at low voltage. Maximum test potential is 50 volts. Can be operated with one hand. Accuracy is within ⅛ inch of scale length. Scale is 2⅜ inches.

Ranges—0-10,000 Megohms (Logarithmic scale).

Size—3-3/16″ x 5¼″ x 5″. Approx. weight 3-4/5 lbs.

Weston Model 799—(Leads, tubes, batteries, oak case). Net Each...................... $\$75^{00}$

MODEL 695
POWER LEVEL METER



A rectifier type voltmeter for power level measurements in all types of speech equipment and radio receivers. Readings in decibels as well as a-c volts. Accuracy 5%. Available in two types each have seven a-c ranges from 2 to 200 volts, eleven db ranges (Type 11 from —4 to +36 db, Type 14 from +7 to +36 db). Reference level, Type 11, 6 MW, 500 ohms; Type 14, 1 MW, 600 ohms. All ranges have a constant impedance of 20,000 ohms.

Size—5-33/64″ x 3-45/64″ x 3⅛″. Weight 1½ lbs.

Weston Model 695—Types 11 or 14 (including test leads) Net Each.................... $\$60^{00}$

MODEL 766 TELEVERTER

This is a high voltage series multiplier. It extends range to 5,000 or 10,000 volts.

Weston Model 766—Type 1 (5,000 volts). Net Each........ $\$18^{00}$

Weston Model 766—Type 2 (10,000 volts). Net Each....... $\$24^{00}$

MODEL 792 INSULATION TESTER

Measures insulation, cable or other high resistance up to 900 megohms at a test potential of approximately 500 volts when used with Model 785.
Weston Model 792—Net Each $\$37^{50}$

MODEL 604 CURRENT TRANSFORMERS

Inserted primary type used to increase a-c current range of Model 785. Type 1, accuracy 1% on frequencies from 25 to 125 cycles, capacity 2 volt-amperes. Type 2, accuracy 1% on frequencies from 50-125 cycles, capacity 5 volt-amperes.

Weston Model 604—Type 1. (200:5, 300:5) Net....................**$17.10**
(400:5, 500:5). Net............**$15.68**

Weston Model 604—Type 2 (200:5). Net...........................**$28.50**
(400:5, 500:5) Net............**$27.08**

MODEL 785 TYPE 6 INDUSTRIAL CIRCUIT TESTER

Model 785 is a multi-range, multi-purpose instrument grouping several service and test instruments in one compact rugged case. Instantaneous current and voltage readings are obtained on Model 785. All ranges required are instantly available and wide selection facilitates measurements in best portion of the scale. Current and voltage ranges can be extended and insulation tested by use of accessories listed at left.

28 PRACTICAL SELF-CONTAINED RANGES

D-C Volts—100 MV direct for use with external shunts and 1/10/50/200/500/1000 Volts (20,000 ohms per volt). Accurate within 2% to 500 volts, 3% at 1000 volts.

A-C Volts—5/15/30/150/300/750 volts (1000 ohms per volt). Accurate within 3%.

D-C Current—50 Microamperes, 1/10/100 milliamperes. Accurate within 2%. Higher ranges at full scale reading with 100 MV external shunts.

A-C Current—.5/1/5/10 Amperes. Accurate within 3% on 60 cycles. Higher ranges with external current transformers using 5 ampere range.

Resistance—3000/30,000/300,000 ohms, 3/30 megohms, full scale. 25/250/2,500/250,000 ohms center scale. Self-contained batteries. Accurate within 2% of linear arc length on any ohmmeter.

Size—13″ x 12½″ x 5½″. Approx. weight 13½ lbs.

Weston Model 785—In Oak Carrying Case. Net Each $\$157^{50}$

Weston Model 785—In Steel Case for bench use. Net Each............. $\$127^{50}$

Test Meters and Equipment

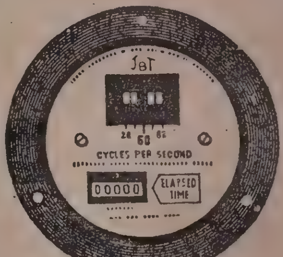
JBT VIBRATING REED FREQUENCY METERS

J-B-T Vibrating Reed Frequency Meters are used extensively in radio, telephone and television service, on engine generator sets, in laboratories, in many types of electronic equipment—wherever constant or known frequency is important to efficient operation of equipment.

JBT
58 60 62
CYCLES

MODEL 31-F

This is used in standby power equipment. It is handy for measuring frequency of power source. Five reeds, 58-62 cycles, 100-130 volts. 130 ohms/ volt; 1 watt power consumption. Accuracy ±0.3% at reference temperature. Flush panel mounting. Depth behind panel, 2 9/16″ incl. lugs. Dia., 2 9/16″; incl. flange, 3¼″. **$23.65**
J-B-T Model 31-F—Net Each......................
J-B-T Model 31-FX—In 3½″ molded case. Net Each. . **$23.65**

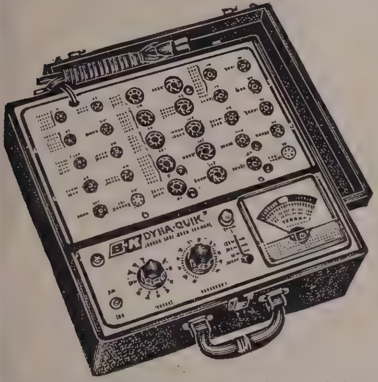


MODEL 31-FE ELAPSED TIME AND FREQUENCY METER

This unique panel instrument combines the elapsed time or running time meter with frequency reeds. It is widely used on motor generator sets and on electrical equipment where maintenance routine calls for periodic servicing. Reads 9,999.9 hours; 58-62 cycles at 110-130 volts. Self-starting. Tenths shown in red numerals, all others black. Meter panel 2 9/16″ (2 5/32″ panel mounting hole recommended); depth behind flange, 4 11/32″. Front mounting same as Model 31-F. Variations with 7, 9 or 11 reeds on special order only. **$33.00**
J-B-T Model 31-FE—Net Each....................

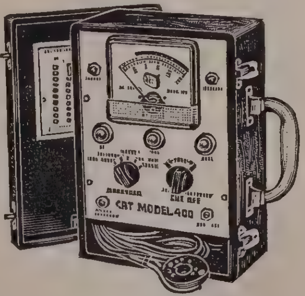
B & K TESTERS AND REJUVENATOR

MODEL 500 DYNA-QUIK MUTUAL CONDUCTANCE TUBE TESTER



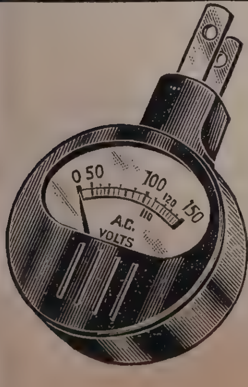
Tests 99% of all tubes in use today for: Dynamic Mutual Conductance; Shorts; Grid Emission; Gas Content; Leakage; Life Expectancy. **One switch tests everything.** No multiple switching. No roll-charts. Yet is never obsolete, as a new overlay panel with new markings can be had when required. Tests a tube completely in 12 seconds. All the tubes in an average TV set can be tested in 9 minutes! Large 4½″ plastic meter with two scales, 0-6,000 and 0-18,000 micromhos. Special bridge monitors line voltage continuously. Built-in straightener for 7 and 9 pins. Complete, in black leatherette carrying case with removable, slip-hinge cover. Operates on 105-125 v., 60 cps AC. **Size:** 15⅛″ x 14½″ x 5¾″. **Weight:** 12 lbs. **$109.95**
B & K Model 500 Tube Tester—Net Each.........

MODEL 400 CATHODE REJUVENATOR-TESTER



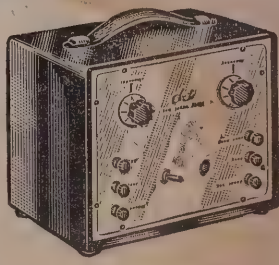
Quickly corrects most TV picture tube troubles in a few minutes, right in the home and without removing the tube from the set! Tests the picture tube for all the important factors. Checks continuity between base pins and tube elements—also for shorts or leakage. Indicates exactly which elements are shorted together. Checks amount of cathode emission and grid bias needed to cut the tube off. Checks Gas Content. Predicts probable useful life expectancy of the picture tube. Repairs most common picture troubles—removes shorts between elements, repairs open connections to elements, reactivates the cathode and restores emission. Supplied with 4½″ plastic meter, 6X4 tube, selenium rectifier, cord, plug, carrying case with removable, slip-hinged cover. Operates on 105-125 v., 60 cps AC. **Size:** 11″ x 7½″ x 5″. **Weight:** 5½ lbs.
B & K Model CRT 400 Cathode Rejuvenator-Tester— **$54.95**
Net..
B & K Model CRT 200—Economy model Cathode Rejuvenator Tester is complete with a 3″ meter, 6X4 tube, selenium rectifier, cord and plug, case. Weight, 5 lbs. Net Each..........**$39.95**

EMICO AC VOLTAGE TESTER



This inexpensive AC Voltage Tester will give instant accurate readings right at the receptacle. No wires, no assembly, just plug it in. Two male prongs fit any standard outlet. A 90° swivel arrangement at the prongs permits turning the meter to make reading easy from any position. The tester has a 2″ meter with a damped meter movement in a sturdy steel case; color fast dial. Readings from 0 to 150 volts, with 5 volt gradation from 50 to 150 volts. Precision movement. ±5% accuracy. Shipping Weight 8 oz.
Emico AC Voltage Tester— **$3.00**
Net Each..................

SCALA SUPER MARKER INJECTOR



Model SMI-53 Scala Super Marker Injector—cuts bench time up to 75% on alignment jobs. No longer necessary to connect and re-connect numerous cables, look at erroneous response curves, worry about overloads, traps, and weak or invisible markers. This unit ends all of this completely. A complete video IF alignment job can be done with only two cables and no re-connections. Marker bypasses receiver circuits entirely. Used with any standard marker generator, sweep generator and oscilloscope. By using the Scala Model BZ-2 Low Capacity Probe (listed below) and the Super Marker Injector as a high gain amplifier and detector, a simple arrangement is provided for visually checking sync pulses and stage by stage gain even under fringe area conditions. **$67.50**
Model SMI-53 Marker Injector—Net Each..........

MODEL BZ-1 SIGNAL PROBE

Model BZ-1 Signal Tracing Probe can be used to locate dead IF stages, mark ratio detector curve, calibrate marker generator, adjust video amplifiers, check sweep generator output, view response of single IF stage, trace buzz pulse in sound IF strip. Can also be used with VTVM. Contains low capacitance demodulator. High impedance design. Non-resonant to 225 mc, useful to 1000 mc. **$9.75**
Model BZ-1 Signal Probe—Net Each..................

MODEL BZ-2 LOW CAPACITY PROBE

Model BZ-2 Low Capacity Probe makes it possible to trace video, sync or sweep wave forms through high impedance circuits without phase shift or causing waveform distortion due to circuit loading. Cuts the effective input capacitance of scope and test lead by a factor of 10. Gives 10 to 1 attenuation. **$9.75**
Model BZ-2 Low Capacity Probe—Net Each..........

MODEL BZ-3 PROBE

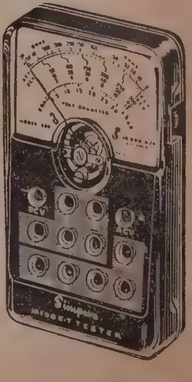
Model BZ-3 100:1 Voltage Divider Probe is very useful in checking horizontal sweep circuits. Easily applied to plate or horizontal output tube or damper tube to check operation waveforms and measure peak to peak voltages. Input vacuum capacitor less than 2 mmf. Useful to 10,000 peak to peak volts. **$9.75**
Model BZ-3 Voltage Divider Probe—Net Each.........

MODEL BZ-4 PROBE

Model BZ-4 Voltage Doubler Probe provides virtually double the deflection on a scope screen provided by conventional half-wave probes. Offers high degree of 60 cycle hum rejection. Has dual demodulator of lower capacitance, high impedance design, selected for balance and sensitivity, useful to 150 mc. **$10.75**
Model BZ-4 Voltage Doubler Probe—Net Each.......

SIMPSON TEST EQUIPMENT

MODEL 355 "MIDGETESTER"



Simpson "Midgetester" is as compact as a package of cigarettes. Size 1″ thick, 4½″ long and 2¾″ wide. Fits into your shirt pocket easily. Fits in an attractive polished styrene case.

RANGES

AC Volts: 0 to 3 volts, 0 to 12 volts, 0 to 60 volts, 0 to 300 volts, 0 to 1200 volts. (At 10,000 ohms per volt).

DC Volts: 0 to 3 volts, 0 to 12 volts, 0 to 60 volts, 0 to 300 volts, 0 to 1200 volts. (At 10,000 ohms per volt).

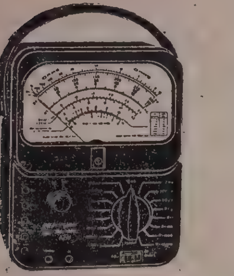
Resistance: 0 to 10,000 ohms, 0 to 100,000 ohms, 0 to 1 megohm, 0 to 10 megohms.

Simpson Model 355 "Midgetester"—Complete with test leads and instructions. Net Each................. **$29.95**

178-55B

Test Instruments, Terminals

PRECISION APPARATUS



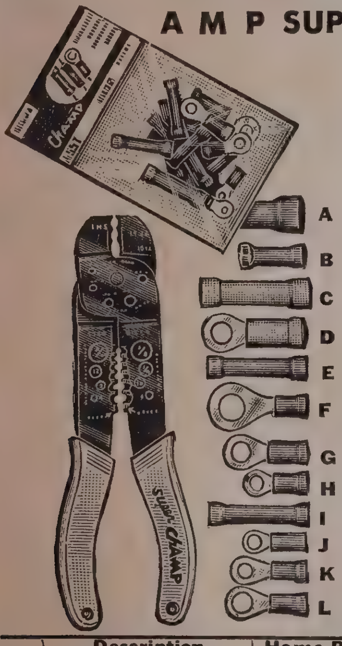
"120" MULTI-RANGE TEST SET

Out-ranges any similar V-O-M: From 1.2 volts full scale AC-DC to 6000 volts full scale (up to 60 kv DC with optional "TV" probe); from 60 microamperes full scale (1 microamp per scale division) to 12 amperes DC; from −20 db to +3 db low scale to +56 db to +77 db high scale; from 0-200 ohms full scale to 0-20 megohms full scale. **8 DC Voltage Ranges:** 20,000 ohms per volt; 0-1.2-3-12-60-300-600-1200-6000 volts. **8 AC Output Ranges:** Same as DC, with built-in blocking capacitor to 600 volts. **7 DC Current Ranges:** 0-60-300 microamperes, 0-1.2-12-120-600 milliamperes, 0-12 amperes. **5 Resistance Ranges:** Self-contained batteries; 0-200-2000-200,000 ohms, 0-2-20 megohms. **8 Decibel Ranges:** −20 db to +77 db; 0 db equals 1 milliwatt, 600 ohms. **Extra-Large 5¼" PACE Meter:** 40 microamperes sensitivity, 2% accuracy. Manganin compensated. 1% wire-wound and deposited film multipliers and shunts. Two low resistance jacks serve all standard ranges. Separately identified and isolated jacks provide for extra-high ranges. **"Transit" Safety Position:** On Rotary Range Selector, provides effective dampening of meter movement for utmost protection during transportation. Custom-molded phenolic case and panel. **Precision Apparatus Model 120**—Complete with internal ohmmeter batteries, banana-plug test leads and operating manual. Overall case dimensions approx. 5⅜" x 7" x 3". Shipping Weight, 5 lbs. Net Each.............................. $39⁹⁵

SERIES 520 GENERAL PURPOSE 5" OSCILLOGRAPH

Especially engineered to fill the requirement for an economically priced, reliable 'scope for general applications. Permits the benefits of practical visual circuit analysis. **Condensed Specifications:** **(1)** Push-pull vertical and horizontal drive; **(2)** 20 millivolts per inch "V" sensitivity; **(3)** 4-step "V" input, frequency-compensated attenuator; **(4)** built-in 1 volt peak-to-peak, regulated voltage calibrator; **(5)** "V" frequency response 3 db or better at 500 kc; **(6)** 150 millivolts per inch "H" sensitivity; **(7)** "H" frequency response 3 db or better at 200 kc; **(8)** multi-vibrator internal linear sweep 10 cps to 30 kc; **(9)** negative and positive sweep sync selection; **(10)** internal 60 cycle sine-sweep phasing; **(11)** beam modulation input terminal; **(12)** etched-anodized heavy gauge aluminum panel. **Size:** 8¼" x 14½" x 16½". **Percision Apparatus Model ES-520**—Net Each..... $127⁵⁰

A M P SUPER CHAMP TOOL



A sturdy multipurpose tool to cut, strip and gauge wire, crimp terminals and shear bolts and machine screws. Heavy plastic insulation on handles for shock protection.

Wire Cutter—"Guillotine" type wire cutter cuts easily and cleanly through insulation and conductor of No. 22 to 10 wire.

Wire Stripper—Stripper notches cut through insulation and easily strip wire for crimping terminals. Notches handle wire No. 22 to 10 and serve as wire gauge. Stripping gauge shows proper amount of insulation to strip.

Stud Size Gauge—Circles represent actual diameters of studs for selecting proper stud size.

Shear—Shears bolts and machine screws. Threaded holes accept #10-24, #10-32, #8-32, #6-32, #4-40 bolts and machine screws.

Order Terminals below.

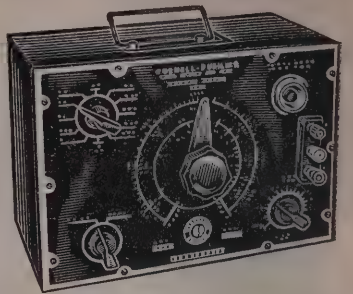
A M P No. 47100—Super Champ Hand Tool. Net Each......... $3⁹⁵

Key	Description		Home Package*		Package of 100	
	Wire Size	Stud Size	A M P No.	Net Each	A M P No.	Net Each
A	16-10	Closed End Connector	36631	$1.00	C-36965	$4.50
B	16-10	Closed End Connector	36630	1.00	C-36964	3.95
C	12-10	Butt Connector	36629	1.00	C-34072	5.95
D	12-10	10	36628	1.00	C-34854	5.25
E	16-14	Butt Connector	36627	1.00	C-34071	4.50
F	16-14	¼	36626	1.00	C-34162	4.95
G	16-14	10	36625	1.00	C-34161	3.95
H	16-14	6	36624	1.00	C-34158	3.95
I	22-16	Butt Connector	36623	1.00	C-34070	3.95
J	22-16	6	26622	1.00	C-34142	3.95
K	22-16	6	36621	1.00	C-34144	3.95
L	22-16	10	36620	1.00	C-34149	3.95
....	Assorted terminals		36632	1.00	....	....

*Contains approximately 20 units.

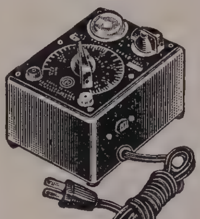
CORNELL-DUBILIER INSTRUMENTS

NEW CAPACITOR-RESISTOR BRIDGE



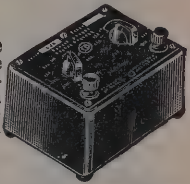
Measures capacity of most capacitors; capacity between wires and shielding; power factor to 50%; leakage in electrolytics; insulation resistance of paper, mica and ceramic capacitors; resistance from 100 to 5,000,000 ohms. Range .00001 to 1000 mfd. Detects shorts, opens and intermittents. Sharp definitive readings. Direct reading scales. Polarizing voltages 25, 150, 250, 350 and 450 volts DC. Visual-eye Null Indicator. Protected against after-test capacitor-change shock. 5½" x 7" x 10". Weight, 8¼ lbs.
Cornell-Dubilier Model BF-60—Complete with tubes. Net Each.. $42⁸⁵

MODEL BN CAPACITOR BRIDGE



Accurately measures capacity of paper, mica, electrolytic and air capacitors from .00001 mfd. to 50 mfd. Indicates power factor of electrolytic capacitors by means of visual eye detector tube. Detects open and short circuits, high and low capacity and high power factor. May be used as continuity meter. For operation on 110 v., 60 cps. Employs Wien bridge circuit for all measurements. Accuracy independent of line voltage variations. Visual eye bridge balance. Direct reading scale with all markings in microfarads. No charts or multipliers required. The bridge is complete in itself and requires no headphones, standards, external meters, etc. 3⅝" x 5" x 3". In walnut bakelite case, with leads and instructions. Weight, 2 lbs.
Cornell-Dubilier Model BN—Net Each............. $24⁹⁵

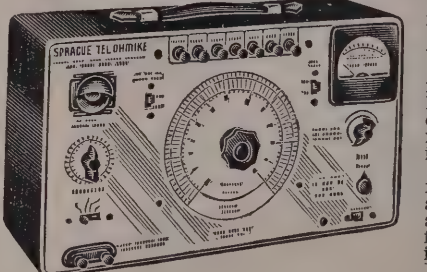
CAPACITOR DECADES



Provide accurate standards over a wide range of capacity. May be used in groups of three decades, or individually for maximum flexibility. Each decade is furnished with calibration chart giving exact capacity values for all scale markings, extending use to more precise measurements. **Rated Voltage—600 V. DC, 200 V. AC.**

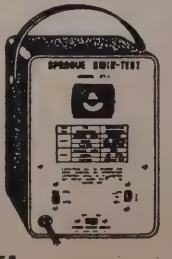
C-D Model	Capacity	Tolerance	Dielectric	Net Each
CDA 5	.011 mfd. in .0001 mfd. steps	±5%	Mica	$11.35
CDB 5	1.1 mfd. in .01 mfd. steps	±5%	Oil-Paper	11.35
CDB 3	1.1 mfd. in .01 mfd. steps	±3%	Oil-Paper	13.50
CDC 4	10.0 mfd. in 1.0 mfd. steps	±5%	Oil-Paper	19.95
CDC 3	10.0 mfd. in 1.0 mfd. steps	±3%	Oil-Paper	22.00

SPRAGUE TEL-OHMIKE® ANALYZER



Instant push-button range selection. Safety discharge feature. Magic eye bridge balancing. Direct meter readings of leakage current (rated to 600 volts, 2 ranges: 0-6-60 ma.); insulation resistance (to 20,000 meg. for mica, paper and ceramics); continuous adjustable voltages for testing electrolytics at exact voltages. Low capacitance circuit for checking small ceramics, etc., to 1 $\mu\mu$f to 2000 μf. Resistance bridge measures 2.5 ohms to 25 meg; electrolytic capacitor p-f measured by Wein bridge to 55%. 115 v. 50-60 cy. AC. Gray case is 8⅞ x 14⅝ x 6⅛". Weight 12½ lbs.
Sprague Model TO-4—Net Each........................ $73⁵⁰

KWIK-TEST* CAPACITOR CHECKER



An ideal supplement to the TO-4 Tel-Ohmike. A must for technicians who service TV sets. Easy to operate—simply touch probes to capacitor terminals, press a button and obtain direct reading on magic eye. Magic-eye tube tells if capacitor is open, shorted or intermittent, even when resistor is wired in parallel with capacitor under test. Tests by-pass, blocking and coupling capacitors from 30 mmf to 2000 mf. 5½" wide x 8¼" high x 5" deep. Weighs only 5½ lbs.
Sprague Model KT-1—Net Each... $34⁵⁰

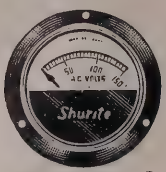
*Trade-Mark Registered

Shurite Panel Meters

SHURITE PANEL METERS

Model 550-AC

Model 550-DC with Zero Adjuster


Model 650-DC

Model 950-DC or AC

Shurite panel meters are attractive, rugged, dependable instruments with accuracy wel- within 5%. All models are metal, telephone-black finish, all require 2 5/32" hole DC meters are polarized-vane solenoid type, AC meters are double vane repulsion type.

Guarantee—All Shurite meters are guaranteed to users against defective workmanship and material and will be repaired or replaced if sent to the factory postpaid with 25c handling charge within one year after date of purchase.

DC VOLTMETERS

RANGE	MODEL 550*		MODEL 650*		MODEL 950	
Volts	Stock No.	Net Each	Stock No.	Net Each	Stock No.	Net Each
0-1	5101	$1.50	....	$1.50	9101	$1.55
0-3	5102	1.55	....	1.55	9102	1.60
3-0-3	5103	1.55	6103	1.55	9103	1.60
0-5	5104	1.55	6104	1.55	9104	1.60
0-6	5105	1.55	6105	1.55	9105	1.60
0-8	5106	1.55	6106	1.55	9106	1.60
0-10	5107	1.60	6107	1.60	9107	1.65
0-15	5108	1.70	6108	1.70	9108	1.75
0-20	5121	1.70	6121	1.70	9121	1.75
0-25	5109	1.75	6109	1.75	9109	1.80
0-50	5122	1.85	6122	1.85	9122	1.90
0-25H**	5110	2.40	6110	2.40	9110	2.45
0-50H**	5111	2.55	6111	2.55	9111	2.60
0-75	5112	1.90	6112	1.90	9112	1.95
0-100	5113	2.00	6113	2.00	9113	2.05
0-100H**	5114	2.70	6114	2.70	9114	2.75
0-150	5115	2.10	6115	2.10	9115	2.15
0-150H**	5116	2.80	6116	2.80	9116	2.85
0-300H**	5117	3.05	6117	3.05	9117	3.10
0-500H**	5118	4.00	6118	4.00	9118	4.05
0-750H**	5119	4.75	6119	4.75	9119	4.80
0-8-160	5120	2.40	6120	2.50	9120	2.55

*For zero adjuster, add 35c to price and Z to stock number.

**H denotes high resistance. No zero adjuster on Model 950.

Nos. 0-300H, 0-500H and 0-750H supplied with external resistors.

DC AMMETERS

RANGE	MODEL 550*		MODEL 650*		MODEL 950	
Amps	Stock No.	Net Each	Stock No.	Net Each	Stock No.	Net Each
0-1	5201	$1.55	6201	$1.55	9201	$1.60
0-3	5202	1.55	6202	1.55	9202	1.60
0-5	5203	1.55	6203	1.55	9203	1.60
0-8	5204	1.55	6204	1.55	9204	1.60
0-10	5205	1.55	6205	1.55	9205	1.60
0-15	5206	1.65	6206	1.65	9206	1.70
0-25	5207	1.95	6207	1.95	9207	2.00
0-50	5208	2.25	6208	2.25	9208	2.30
3-0-3	5210	1.65	6210	1.65	9210	1.70
5-0-5	5211	1.65	6211	1.65	9211	1.70
6-0-6	5212	1.65	6212	1.65	9212	1.70
10-0-10	5213	1.80	6213	1.80	9213	1.85
20-0-20	5214	1.85	6214	1.85	9214	1.90
30-0-30	5215	1.95	6215	1.95	9215	2.00
50-0-50	5216	2.10	6216	2.10	9216	2.15

*For zero adjuster, add 35c to price and Z to stock number. No zero adjuster on Model 950.

DC MILLIAMMETERS

RANGE	MODEL 550*		MODEL 650*		MODEL 950	
Ma.	Stock No.	Net Each	Stock No.	Net Each	Stock No.	Net Each
0-1**	5300Z	$3.20	6300Z	$3.20	9330Z	$3.25
0-3L**	5332Z	2.90	6332Z	2.90	9332Z	2.95
0-3	5301	2.25	6301	2.25	9301	2.30
0-5	5302	2.05	6302	2.05	9302	2.10
0-10	5303	1.95	6303	1.95	9303	2.00
0-15	5304	1.60	6304	1.60	9304	1.65
0-25	5305	1.55	6305	1.55	9305	1.60
0-50	5306	1.55	6306	1.55	9306	1.60
0-100	5307	1.55	6307	1.55	9307	1.60
0-150	5308	1.55	6308	1.55	9308	1.60
0-200	5309	1.55	6309	1.55	9309	1.60
0-300	5310	1.55	6310	1.55	9310	1.60
0-400	5311	1.50	6311	1.50	9311	1.55
0-500	5312	1.50	6312	1.50	9312	1.55

*For zero adjuster add 35c to price and Z to stock number. No zero adjuster on Model 950 except 9300Z and 9332Z.

**Internal resistance 1000 ohms for 0-1, 500 ohms for 0-3. Sensitive type. Moving-magnet construction. Patent pending. Price includes zero built-in adjuster.

AC VOLTMETERS

RANGE	MODEL 550		MODEL 650		MODEL 950	
Volts	Stock No.	Net Each	Stock No.	Net Each	Stock No.	Net Each
0-4	5401	$2.65	6401	$2.65	9401	$2.70
0-6	5402	2.65	6402	2.65	9402	2.70
0-10	5403	2.65	6403	2.65	9403	2.70
0-15	5404	2.65	6404	2.65	9404	2.70
0-50	5405	3.15	6405	3.15	9405	3.20
0-150	5406	3.40	6406	3.40	9406	3.45
0-300	5407	3.80	6407	3.80	9407	3.85
0-600	5408	4.80	6408	4.80	9408	4.85
0-750	5409	5.40	6409	5.40	9409	5.45

AC AMMETERS

RANGE	MODEL 550		MODEL 650		MODEL 950	
Amps.	Stock No.	Net Each	Stock No.	Net Each	Stock No.	Net Each
0-1	5501	$2.65	6501	$2.65	9501	$2.70
0-3	5502	2.65	6502	2.65	9502	2.70
0-5	5503	2.65	6503	2.65	9503	2.70
0-10	5504	2.65	6504	2.65	9504	2.70
0-15	5508	2.65	6508	2.65	9508	2.70
0-30	5505	2.95	6505	2.95	9505	3.00
0-50	5506	3.15	6506	3.15	9506	3.20

AC MILLIAMMETERS

RANGE	MODEL 550		MODEL 650		MODEL 950	
Ma.	Stock No.	Net Each	Stock No.	Net Each	Stock No.	Net Each
0-10	5607	$2.95	6607	$2.95	9607	$3.00
0-25	5601	2.65	6601	2.65	9601	2.70
0-50	5602	2.65	6602	2.65	9602	2.70
0-100	5604	2.65	6603	2.65	9603	2.70
0-250	5604	2.65	6604	2.65	9604	2.70
0-500	5605	2.65	6605	2.65	9605	2.70

RESISTANCE METERS

RANGE		MODEL 550		MODEL 650		MODEL 950	
Ohms	Volts	Stock No.	Net Each	Stock No.	Net Each	Stock No.	Net Each
10,000	4.5*	5701	$2.10	6701	$2.10	9701	$2.15

*Requires 3 flashlight cells for resistance readings but does not require resistor for voltage readings.

FLANGE ADAPTER RING

A sturdy flange ring for use with any Model 550 (round) Shurite meter where a flange mount is preferred. Makes appearance similar to Model 650. Wide flange, 2¾" diameter. Telephone black finish. Screws, lockwashers and nuts included.
Model 5-A—Net Each........................**18c**

POCKET TYPE METERS

A series of Shurite pocket meters using the Model 450 case is in production. Model 450 has nickel plated case, with two or three terminals, depending on ranges. Ranges suitable for pre-war and post-war batteries, portable radio batteries and many other electrical applications, including polarity indication types have been made, although they are not regularly stocked.
For ordering, use stock number regularly listed, changing the first digit to 4. For example, a 0-3 DC ammeter as illustrated becomes Stock No. 4202 as a pocket meter.

To arrive at price, add 40c to catalog price of Model 550 meters sold at $1.70 or less; add 30c for meters sold at $1.75 and above. For details, request Bulletin "Shurite Pocket Types."

The bulletin, "Shurite Pocket Types" is revised periodically to indicate which pocket type meters are available. Write for this bulletin and pricing information.

Precision Panel Meters by TRIPLETT

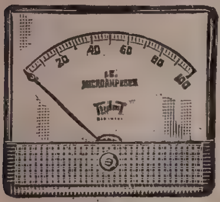


Fig. A
DC: 420-PL, 227-PL, 327-PL
RF: 440-PL, 347-PL
AC: 430-PL, 237-PL, 337-PL

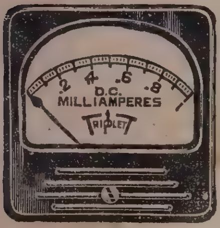


Fig. B
DC: 227-T; 327-T
AC: 237-S; 337-S
RF: 247-T; 347-T

GENERAL PANEL METER INFORMATION (ACCURACY ±2%)

Model Numbers	Scale Lgth. Inches	Flange Inches	Body Diam. Inches	Body Depth Inches	Case#	Illus.
221-PL DC	2.197	2 11/16	2 13/64	1	TP	C
227-PL DC	2.197	2 19/32	2 5/32	1 3/32	TP	A
231-PL AC	1.92	2 11/16	2 13/64	1	TP	C
221-T DC; 241-T RF	1.76	2 11/16	2 7/32	15/16	TS	D
231-S AC	1.58	2 11/16	2 7/32	1 5/16	TS	D
227-T DC; 247-T RF	1.76	2 3/8	2 5/32	1	TS	B
237-S AC	1.58	2 3/8	2 5/32	1 3/8	TS	B
237-PL AC	11.92	2 19/32	2 5/32	1 3/32	TP	A
321-PL DC; 341-PL RF	3.11	3 1/2	2 3/4	1	TP	C
331-PL AC	2.65	3 1/2	2 3/4	1	TP	C
321-T DC; 341-T RF	2.49	3 1/2	2 3/4	15/16	TS	D
331-S AC	2.22	3 1/2	2 3/4	1 5/16	TS	D
327-PL DC	3.11	3 3/8	2 3/4	1 3/32	TP	A
327-T DC; 347-T RF	2.49	3	2 3/4	1	TS	B
337-PL AC	2.65	3 3/8	2 3/4	1 3/32	TP	A
337-S AC	2.22	3	2 3/4	1 3/8	TS	B
327-PL DC; 347-PL RF	3.11	3 3/8	2 3/4	1 3/32	TP	A
420-PL DC; 440-PL RF	4.14	4 5/8 x 4 3/16 h.	2 3/4	1 1/16	TP	A
430 PL AC	3.6	4 5/8 x 4 3/16 h.	2 3/4	1 1/16	TP	A

#TP—Thermoplastic. **TS**—Thermosetting.

DC instruments are the D'Arsonval type with extra-light moving coil; rugged construction; double all-metal bridges; special all-balanced frame. AC instruments are the moving iron vane type, air damped and have light moving parts. All have selected jewel bearings, highly polished with specially treated pivots. White enameled metal dials are standard; molded zero adjusters; ceramic stops.

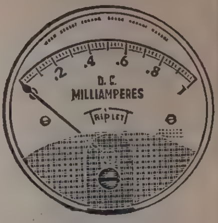


Fig. C
DC: 221-PL; 321-PL
AC: 231-PL; 331-PL
RF: 341-PL

.2
.4
.6
.8
MILLIAMPERES D.C.
TRIPLETT

Fig. D
DC: 221-T
AC: 231-S
RF: 241-T

Instrument	Range	Ohms Resistance	Net Each				
			221-T 227-T	321-T 327-T	227-PL 221-PL	327-PL 321-PL	420-PL
DC Voltmeter 1000 ohms per volt See Note a	0–5	......	......	......			
	0–10	......	7.50 (227-T only)	8.50 (327-T only)			
	0–50	......					
	0–100	......					
	0–150	......					
	0–300	......					
	0–500	......					
	0–750	......					
DC Ammeters See Note b	0–1	......	7.50	8.50	8.00	9.00	9.50
	0–5	......					
	0–10	......					
	0–25	......					
	0–30	......			i	j	
	0–50	......			i	j	......
DC Micro-ammeters See Note c	0–20	3000	13.50	14.50	14.00	15.00	15.50
	0–50	1510	10.50	11.50	11.00	12.00	12.50
	0–100	825	10.00	11.00	10.50	11.50	12.00
	0–200	360	8.50	9.50	9.00	10.00	10.50
	0–500	156	8.00	9.00	8.50	9.50	10.50
DC Milli-ammeters See Note d	0–1	55.	7.50	8.50	8.00	9.00	9.50
	0–5	8.5					
	0–10	3.1					
	0–15	6.6					
	0–25	4					
	0–50	2					
	0–100	1					
	0–150	0.6					
	0–200	0.5					
	0–300	0.33					
	0–400	0.25					
	0–500	0.2					
	0–750	0.13					
	0–1000	0.1					

Instrument	Range	Resistance	Net Each				
			241-T 247-T	341-T 347-T	341-PL 347-PL	440-PL	
Thermo Ammeters RF See Note e	0–0.5	.93	8.50	9.50	10.00	10.50	......
	0–1	.35			10.00	10.50	......
	0–1.5	.21			10.00	10.50	......
	0–2.5	.13			10.00	10.50	......
	0–5	.06			10.00	10.50	......
	0–10	.03			10.00	10.50	......

Instrument	Range	‡Ohms, volt or Resistance	Net Each				
			231-S 237-S	331-S 337-S	237-PL 231-PL	331-PL 337-PL	430-PL
AC Voltmeter See Note f See Note m	0–1.5	‡ 1.33	7.50		8.00	9.00 (331-PL only)	9.50
	0–3	‡ 3.33					
	0-5	‡ 4		......			
	0–10	‡10		8.50			
	0–15	‡16					
	0–25	‡20					
	0–50	‡50					
	0–100	‡91					
	0–150	‡125	$8.50	$9.50	$9.00	10.00	10.50
	0–250	‡144	9.50	10.50	10.00	11.00	11.50
	0–300	‡144	10.30	11.30	10.80	11.80	12.30
	0–500	‡125	13.80	14.80 k	14.30	15.30	15.80
	0–750	‡125	16.40 l	17.40 l	16.90	17.90	18.40
	0–1000	‡125	18.20 l	19.20 l	18.70	19.70	20.20
AC Ammeters See Note g	0–1	.21	7.50	8.50	8.00	9.00	9.50
	0–2	.11					
	0–3	.02					
	0–5	.01					
	0–10	.005					
	0–15	.002					
	0–25	.001					
	0–30	.001					
	0–50	.0005					
	0–75	.0003	......	9.80	......	10.30	10.80
AC Milli-ammeters See Note h	0–10	2900	7.50	8.50	......	9.00	9.50
	0–15	1150			......		
	0–25	344			......		
	0–50	82			......		
	0–100	21			......		
	0–200	6.7			......		
	0–250	3.4			......		
	0–500	0.8			......		

NOTES—**a.** 125 ohms volt wirewound (vacuum impreg.) available on special order. All DC voltmeters listed are film type. **b.** DC ammeters self-contained up to and incl. 50 amps. Shunts 75 amps. and higher are switchboard type with 5-ft. leads (not incl.). **c.** Use lower torque meters hor. only. 0-200 recommended for most photocell work. **d.** Ranges above 10 milliamperes shunted, have a drop of approx. 100 millivolts. **e.** Internal couples normally incl. at prices shown. If external couples required, specify, adding $4.50 to price. **f.** For use from 25 to 133 cycles. **g.** For 25 to 500 cycles. For ranges above 50 on 2″ meters and above 75 on others use current transformers, with 5-amp. secondary. Write for prices. **h.** Use on 25 to 500 cycles. **i.** 221-PL only. **j.** 321-PL only. **k.** Supplied with external wire-wound series resistors. **l.** Supplied with external resistor boxes. **m.** Self-contained unless otherwise indicated. Double range voltmeters available to special order.

HIGH RANGE VOLTMETERS: AMATEURS

Designed particularly for radio amateurs. High range 3″ D. C. Voltmeters—1000 ohms per volt. Provided with special external film-type multipliers mounted on bakelite strip. Specify this type when ordering, or standard voltmeters will be furnished. Available 3″ case. **Ranges:** 0-1000, 0-2000, 0-3000, 0-4000, 0-5000.

Please specify range desired, as well as model number.

Model Nos.	Net Each
227-T	$12.10
327-T	13.10
227-PL	12.60
327-PL	13.60
420-PL	14.10

VOLUME UNIT METER

Internal Impedance 3900 ohms. Steady reference 1 Milliwatt. For 600 ohm line. 0-100% scale; also −20 to +3 V. U scale. Specify Type "A" or "B" scale preferred when ordering. Type "A" Scale: 0-100% −20 +3 VU on top arc. Type "B" Scale: 0-100% −20 +3 VU on bottom arc.

Model 327-T—VU Meter. Net.. **15.50**

Model 327-T—Illuminated VU Meter. Net Each.............. **17.00**

Model 321-PL—Meter. Net Ea.. **16.00**

DECIBEL METER

Up 6 Down 10 D. B. Meters. Calibrated for 500 ohm line. 6 Milliwatts. Zero D. B. = 1.73 volts. Accuracy 5%. Also special high and low speed types. Internal resistance, standard decibel meter, 5000 ohms. May be supplied with 2500 ohms resistance to special order.

Models 321-T or 327-T—Illuminated. Net Each............ **$14.00**

Models 321-T or 327-T—Net... **$12.40**

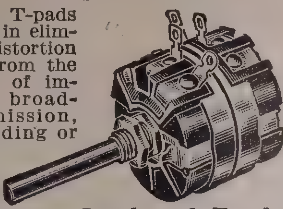
Model 321-PL—Net Each...... **12.90**

Model 420—Illuminated. Net... **15.00**

Write for complete listings of Triplett Panel Meters

Controls, Rectifiers, Test Prods

CLAROSTAT CONSTANT IMPEDANCE CONTROLS



L-pads and T-pads are essential in eliminating the distortion that arises from the mismatching of impedances in broadcast transmission, sound recording or public address systems. With Clarostat constant-impedance L-pads and T-pads the input and output impedances of associated equipment of a circuit can be kept within the limits of a constant required value. These pads have a continuous range from 0.5 to 30 decibels attenuation in 90% of rotation, the last 10% affording infinite attentuation. Employable at either the source or the load in a circuit, these units are readily one-hole mounted. They afford a wide range of uses as mixers, faders, multiple-speaker controls, etc. Such controls can be used as individual volume controls for multiple-speaker systems, without affecting or changing the source impedance. These units are rated as 2½ watts, when used on DC or constant frequency signals. However, they have been used successfully up to 10 watts on audio circuits.

WIRE-WOUND T-PADS

Clarostat No.	Resistance in Ohms	Net Each
CIT-4	4	$2.55
CIT-6	6	
CIT-8	8	
CIT-15	15	
CIT-50	50	
CIT-100	100	
CIT-200	200	
CIT-250	250	
CIT-500	500	
CIT-600	600	
CIT-1000	1000	
CIT-2000	2000	

WIRE-WOUND L-PADS

Clarostat No.	Resistance in Ohms	Net Each
CIL-4	4	$2.25
CIL-6	6	
CIL-8	8	
CIL-15	15	
CIL-50	50	
CIL-100	100	
CIL-200	200	
CIL-250	250	
CIL-500	500	
CIL-600	600	
CIL-1000	1000	
CIL-2000	2000	

BELDEN TEST LEAD WIRE

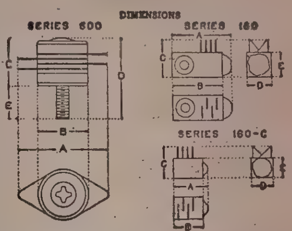
Tinned copper, extra flexible stranding; cotton wrap; rubber insulation. Red or black, specify color.

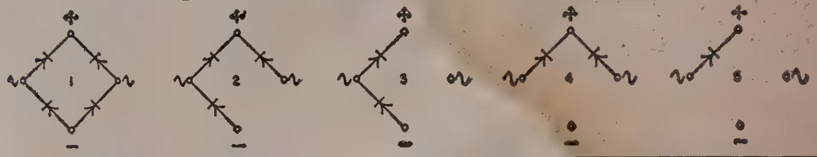
Belden No.	Gage	Voltage Rating	Net Each	
			10′ Pkg.	14′ Pkg.*
8899	18	5000	35c	50c
8898	18	10000	50c	....

*7 ft red, 7 ft. black.

CONANT INSTRUMENT RECTIFIERS

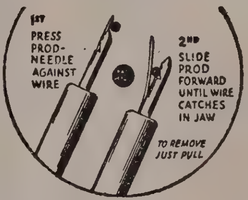
Series 500 Units are for general applications requiring output current for meters, relays or other apparatus requiring more than 1 milliampere. Recommended for all such applications at commercial and the lower audio frequencies. Will also operate up to 1,000,000 c.p.s. Series 160 and 160-C are for applications requiring good frequency response over the entire commercial and audio range from 0 to 75,000,000 c.p.s., especially when the meter, relay or other apparatus requires less than 1 mill for operation TH-BTH-BTH-C, when used in full wave circuit, these types deliver a sensitivity midway between Types HS, or T and M. They are better than the two disc types, but not quite as good as the four disc bridge types. There is also the possibility of connecting this rectifier as a Type HS or T and of using the remaining disc for compensating.





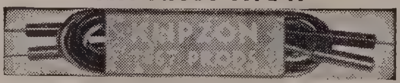
	Type	Int. Cir.	Mount.	No. of Ter.	Wgt. (Gms.)	A	B	C	D	E	Net Each
						Dimensions (Inches)					
Series 500	M	1	6-32 Stud	4	12.718	.890	.500	.485	.800	.315	$2.10
	TH	2	6-32 Stud	4	11.833	.890	.500	.479	.800	.321	1.86
	HS	3	6-32 Stud	3	10.631	.890	.500	.445	.800	.355	1.53
	T	4	6-32 Stud	3	10.631	.890	.500	.445	.800	.355	1.53
	H	5	6-32 Stud	2	9.072	.890	.500	.400	.675	.275	1.20
Series 160	B	1	#2 Screw	4	2.531	.690	.590	.375	.250	.250	2.10
	BTH	2	#2 Screw	4	2.183	.690	.590	.375	.250	.250	1.86
	BHS	3	#2 Screw	3	1.824	.690	.590	.375	.250	.250	1.53
	BT	4	#2 Screw	3	1.824	.690	.590	.375	.250	.250	1.53
	BH	5	#2 Screw	2	1.477	.690	.590	.375	.250	.250	1.20
Series 160-C	B-C	1	Fuse Clip	4	1.743	.345	.297	.310	.220	.200	2.10
	BTH-C	2	Fuse Clip	4	1.650	.345	.297	.310	.220	.200	1.86
	BHS-C	3	Fuse Clip	3	1.385	.345	.297	.310	.220	.200	1.53
	BT-C	4	Fuse Clip	3	1.385	.345	.297	.310	.220	.200	1.53
	BH-C	5	Fuse Clip	2	1.293	.345	.297	.310	.220	.200	1.20

KLIPZON TEST PRODS


1ST PRESS PROD-NEEDLE AGAINST WIRE
2ND SLIDE PROD FORWARD UNTIL WIRE CATCHES IN JAW
TO REMOVE JUST PULL

Built-in self-holding jaws slip on to wires, lugs, terminals easily; grips test point until pulled off. Connects and disconnects from "hot" circuits with safety to user. Fits into pin jacks, sockets, binding posts. Grips all wires from finest to No. 12 B & S GA. Points of nonmagnetic steel, sewing needle sharp with duralumin holders. Easy to pierce insulation, etc.

TEST PRODS TYPE A

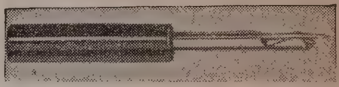


Just press prod needle against wire, slide prod forward until wire catches in jaw. Long (4¾″) glossy plastic handles for high voltage testing. 4-foot super flexible, red and black rubber covered leads, no kinking or curling. Solderless connections in handles. Each pair provided with KLIPZON MINI-PROD connectors as terminals for easy connection to meter or instrument.
Per Pair, Net Each............ $1.95

PROD HANDLES TYPE A-1

Glossy plastic, 4¾″ long, with solderless connection. Wire up to .140″ diameter. Red or black. Net Each............**50c**

MINI-PROD CONNECTORS TYPE B



Circuit connections easily changed without shutting off power. Insure maximum safety in testing. Length 1¾″. Net Each...**25c**

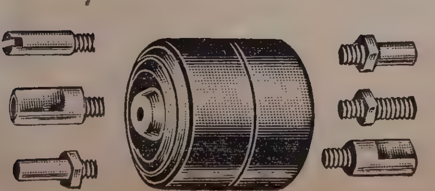
ADAPTERS

Jumbo Adapters, Type J—Heavy duty, for large wires, lugs, terminals. Fits over regular Klipzon test points (also RETMA standard points). Plastic handle. Net **25c**
Mini-Prod Adapters, Type M—Convert old-style test points to self-holding type. Fits over RETMA standard test points or phone tips. Insert furnished for adapting to phono needle type at no extra cost. Plastic handle. Net Each.........**25c**

HI-FREQUENCY CRYSTAL PROBES

Type V—Maroon. For measuring accurately the VHF voltages with VTVM. Germanium Xtal in low-C, Hi-Z circuit. Adapts CRT's to wave analysis of modulated VHF. Reads to 200 mc within 10%, withstands 400 VDC loads. Input Res.; .25 meg at 500 kc. 150K at 10 mc., 25K at 100 mc. With KLIPZON MINI-PROD Terminals. Input Cap. 3.5 mmf. **Type C**—Black. Adapts VOM's for indication and comparison of VHF voltages. Germanium Xtal and network for connection to DC of VOM having at least 200 micro-amps sensitivity. For peaking IF's and determination of gain per stage, etc. Same mechanical features as above.
Net Each, either type.......... **$4.35**

SPRAGUE UNIVERSAL DOORKNOB CERAMIC CAPACITOR (MOLDED PLASTIC)
WITH SCREW-IN TERMINALS TO FIT ALL TV SETS

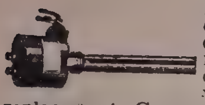


- A new idea in high voltage ceramic capacitor design.
- Molded in non-inflammable, moisture-resistant thermosetting plastic.
- Molded guard rings lengthen surface creepage path.
- **20DK-T5** packaged two to a clear plastic box with giant assortment of screw-in terminals to fit all TV sets.
- **30DK-T5** comes with plain screw-in terminals to meet all 27″ TV set requirements.

Sprague No.	MMF	W.V.D.C.	Diameter x Length	Net Price
20DK-T5	500	20,000	1″ x 31/32″	$1.11
30DK-T5	500	30,000	1 5/16″ x 1¼″	1.80

Controls and Concentrikits by IRC

TYPE Q CONTROLS



A new volume control carefully engineered to meet the needs of modern television and radio replacement. Compact 15/16″ design is augmented with short ¼″ bushing. This tiny control will fit smaller sets, and yet it capably handles the equirements of larger receivers. Uniform finish and blue bakelite base give the Q control a distinctively attractive appearance. Each unit is equipped with original IRC Knob Master Fixed Shaft. Knurled, slotted and flatted, it fits most knob requirements without alteration, except cutting to length. Long 3″ shaft is adequate for many television sets. Quick, simple replacement of Knob Master Shaft with special fixed shaft is made easy by IRC Resilient Retainer Ring. This feature is revolutionary, with 13 inexpensive, interchangeable Fixed Shafts. It makes possible widest replacement coverage.

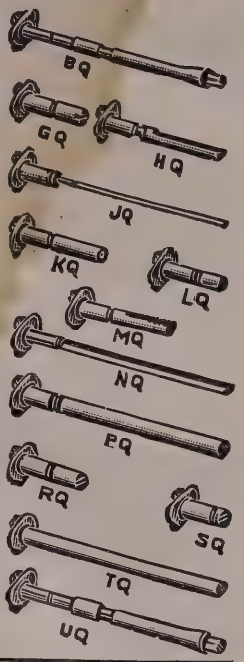
Type Q Single Control. Less Switch—Net Each.......**75c**
Type Q Tapped Control. Less Switch—Net Each **$1.11**

Quickly Attached Switches

IRC76-1—SPST Switch. Net.. **36c**
IRC76-2—DPST Switch—Net **36c**

Interchangeable Fixed Shafts

Shafts BQ, JQ, MQ, NQ......27c
Shafts GQ, HQ, KQ, SQ......18c
Shafts LQ, PQ, RQ...........21c
Shafts TQ, UQ...............36c



IRC No.	Resis. Ohms	Tap At	Taper	IRC No.	Resis. Ohms	Tap At	Taper
11-103	500	....	A	13-133X	500 K	125K	H
11-108	1 K	....	A	14-133	500 K	....	D
11-110	2 K	....	A	17-133X	500 K	25K	X
13-111	2.5 K	....	C	18-133X	500 K	50K	X
11-112	3 K	....	A	19-133X	500 K	250K	X
11-114	5 K	....	A	18-133XX	500 K	100-200K	X
11-115	7,500	....	A	11-137	1 meg.	....	A
11-116*	10 K	....	A	13-137	1 meg.	....	C
13-116	10 K	....	C	13-137X	1 meg.	.25 meg.	H
14-116*	10 K	....	D	14-137	1 meg.	....	D
11-119	20 K	....	A	17-137X	1 meg.	.35 meg.	X
16-119*	20 K	....	X	17-137XX	1 meg.	.050-.1 meg.	X
11-120	25 K	....	A	18-137X	1 meg.	.1 meg.	X
14-120*	25 K	....	D	18-137XX	1 meg.	.25-.5 meg.	X
11-121	30 K	....	A	19-137X	1 meg.	.5 meg.	X
11-123	50 K	....	A	VC-539X	1 meg.	.5 meg.	X
13-123	50 K	....	C	11-138	1.5 meg.	....	A
14-123*	50 K	....	D	11-139	2 meg.	....	A
11-128	100 K	....	A	13-139	2 meg.	....	C
13-128	100 K	....	C	13-139X	2 meg.	.5 meg.	H
11-129	200 K	....	A	13-139XX	2 meg.	.5-1 meg.	X
11-130	250 K	....	A	17-139X	2 meg.	.15 meg.	X
13-130	250 K	....	C	18-139X	2 meg.	1 meg.	X
13-130X	250 K	125K	X	18-139XX	2 meg.	.25-.5 meg.	X
18-130X	250 K	60K	H	19-139X	2 meg.	.050 meg.	X
18-130XX	250 K	60-120K	X	11-239	2.5 meg.	....	A
13-132	350 K	....	C	11-140	3 meg.	....	A
17-132X	350 K	35K	X	13-140	3 meg.	....	C
18-132X	350 K	75K	H	11-141	5 meg.	....	A
11-133	500 K	....	A	11-143	10 meg.	....	A
13-133	500 K	....	C				

*Supplied with 270 ohm BW½ (½watt) ins. wire wound resistor.

EXTENSION SHAFTS

These shafts attach to regular shafts, thus extending length to any needed size and frequently make it possible to use standard controls for "special" jobs.

IRC No.	Size	Net Each
441	4″ x ¼″ dia. x 1/32″ flat..................	24c
442	4″ x ¼″ dia. x 5/32″ flat..................	
443	4″ x 3/16″ dia. x 1/64″ flat................	
444	8″ x ¼″ dia. x 5/32″ flat for 4″ length.....	

SLEEVE BUSHINGS

Five types to meet all mounting needs are available. Consult IRC catalog for illustrations and specifications.

Type S1—Net Each......**27c**
Type S2—Net Each......**18c**
Type S3—Net Each......**36c**
Type S4—Net Each......**36c**
Type S5—Net Each......**36c**

PLAIN AND INSULATED SHAFT COUPLERS

For use with standard controls to meet special shaft requirements. Two set screws give rigid connection.

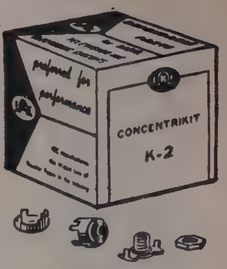
IRC Type C2—Insulated coupler for use with square type shaft used by Motorola. Net Each.................... **18c**

IRC Type C3—Plain coupler to couple ¼″ shafts. Insert allows coupling of ¼″ shaft to 3/16″ shaft. Net Each....... **18c**

VOLUME CONTROL TAPERS

A—Uniform potentiometer.
B—Semi-logarithmic. Tone or audio control.
C—Logarithmic curve. Audio or antenna shunt.
D—Tapered at both ends. Grid bias or antenna.
E—Rheostat—for cathode circuit, to control grid bias.
F—Tapered at both ends. Grid bias or antenna.
G—Logarithmic curve with very gradual taper from left.
H—Tapped logarithmic curve. Bass boost audio level control.
X—Special Purpose Taper.

NEW CONCENTRIKITS



A new development for replacement of TV concentric dual controls which will assemble into EXACT DUPLICATE CONTROLS in less than a minute. Each control assembled needs only two base elements and a pair of shafts in addition to CONCENTRIKIT. (In some instances a switch also is needed.) No filing or cutting of shafts is required with IRC's Exact Duplicate Shafts.

K-2 CONCENTRIKIT

For assembly of concentric dual controls having two carbon sections. Contains four parts: Panel Cover, Rear Cover, Bushing and Mounting Nut. Assembly instructions included. Requires following additional parts, depending upon specifications desired: 2—Base Elements (Type B); 1—Outer Shaft (Types P1 or P2); 1—Inner Shaft (Types R1, R2, R3 or R4); 1—Switch, when needed (Types 76-1 or 76-2). KS-2 Universal Shaft Kit may be used in place of Exact Duplicate Outer and Inner Shafts. **K-2 Kit,** Net **48c**

K-3 CONCENTRIKIT

For assembly of concentric and dual controls having wire-wound panel section and carbon rear section. Contains four parts: Panel Cover, Rear Cover, Ground Plate and Mounting Nut. Assembly instructions included. Additional parts required as follows: 1—Panel-Base Element (Type W); 1—Rear Base-Element (Type B); 1—Outer Shaft (Types P3 or P4); 1—Inner Shaft (Types R1, R2, R3 or R4); 1—Switch, when needed (Types 76-1 or 76-2). KS-3 Universal Shaft Kit may be used in place of Exact Duplicate Outer and Inner Shafts. **K-3 Kit,** Net Each.... **48c**

BASE-ELEMENT STOCK VALUES

Two types of Base-Elements are listed below: Type B for hanel or rear carbon sections and Type W for wire-wound panel sections. Two Base-Elements are required for each concentric dual.
*These types are new.

Plain Base Elements—Net each..............................**30c**
Tapped Base-Elements—Net Each............................**66c**

IRC No.	Ohms	Tap†	Taper	IRC No.	Megs.	Tap†	Taper
*B17-105X	750	1	X	B11-128	.1	....	A
B11-108	1K	....	A	*B17-128	1.	....	X
*B11-109	1.5K	....	A	*B11-228	.125	....	A
*B11-110	2K	....	A	B11-130	.25	....	A
B17-110	2K	....	X	B13-130	.25	....	C
*B17-110X	2K	2	X	B13-130X	.25	10	X
*B17-111	2.5K	....	X	B18-130X	.25	7	H
*B17-111X	2.5K	3	X	*B11-131	.3	....	A
B11-112	3K	....	A	B13-132	.35	....	C
*B17-112	3K	....	X	B17-132X	.35	5	X
B11-114	5K	....	A	B18-132X	.35	8	H
B17-114	5K	....	X	B11-133	.5	....	A
*B17-114X	5K	4	X	B13-133	.5	....	C
B11-115	7.5K	....	A	B13-133X	.5	10	H
B11-116	10K	....	A	*B15-133X	.5	8	X
B17-116	10K	....	X	B18-133X	.5	6	X
*B17-117	11.5K	....	X	B19-133X	.5	11	X
B11-119	20K	....	A	B11-137	1.0	....	A
B11-120	25K	....	A	B13-137	1.0	....	C
*B13-120	25K	....	C	B13-137X	1.0	11	H
B11-121	30K	....	A	B17-137	1.0	....	X
*B11-122	35K	....	A	*B18-137X	1.0	9	X
B11-123	50K	....	A	B18-137XX	1.0	12	X
*B11-125	75K	....	A	B19-137X	1.0	13	X
*W11-102	300	....	A	B11-138	1.5	....	A
*W17-105	750	....	X	B11-139	2.0	....	A
*W17-105X	750	1	X	B13-139	2.0	....	C
*W11-108	1K	....	A	B13-139X	2.0	13	H
*W17-109X	1.5K	3	X	B17-139	2.0	....	X
*W11-110	2K	....	A	B18-139X	2.0	14	X
*W11-111	2.5K	....	A	B18-139XX	2.0	12	X
*W17-111	2.5K	....	X	*B11-239	2.5	....	A
*W11-112	3K	....	A	*B13-140	3.0	....	C
*W17-112	3K	....	X	*B18-140X	3.0	15	X
*W11-114	5K	....	A	B12-141	5.0	....	X
*W17-114	5K	....	X	....	....	....	....
*W11-116	10K	....	A				

†**1**—at 250 ohms; **2**—at 250 and 500 ohms; **3**—at 500 ohms. **4**—at 1K; **5**—at 35K; **6**—at 50K; **7**—at 60K; **8**—at 75K; **9**—at .1 meg.; **10**—at .125 meg.; **11**—at .25 meg.; **12**—at .25 and .5 meg.; **13**—at .5 meg.; **14**—at 1.0 meg.; **15**—at 1.5 meg.

EXACT DUPLICATE SHAFTS FOR CONCENTRIKIT

93 types of Exact Duplicate shafts are available to provide wider replacement coverage. Factory tailored, these shafts assure a dependable mechanical fit. No filing, slotting, soldering or cutting required. Consult IRC Catalog for complete listing.
IRC Exact Duplicate Shafts—Net Each.................. **36c**

UNIVERSAL SHAFTS FOR CONCENTIKIT

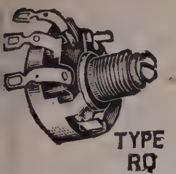
Use in place of exact duplicate shafts. KS-2 Shaft Kit with K-2 Concentrikit equivalent to former K-1 Concentrikit. Shaft Ends E-187 and E-202 are included in both Shaft Kits.
IRC Type KS-2 Universal Shaft Kit—Net Each..........
IRC Type KS-3 Universal Shaft Kit—Net Each.......... **72c**

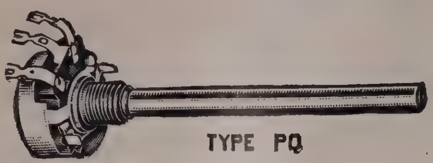
EXACT DUPLICATE CONTROLS

Specially engineered for servicemen who demand exact duplicates for replacement work, IRC's Factory-Assembled Exact Duplicate Controls give the widest TV coverage. Specified for 416 Trade Name Part Numbers used in over 5,000 TV models. Consult IRC TV Control Manual for complete listing and pricing information.

TV and Industrial Controls by IRC

IRC TYPES PQ AND RQ INDUSTRIAL CONTROLS AND POTENTIOMETERS


TYPE RQ


TYPE PQ

The IRC Industrial Series features the new IRC Q Control. Design improvements make the new Q Control resistance element the best IRC has ever manufactured. An increased arc of rotation permits the same resistance ratios as have been previously used in larger IRC controls. Rotation same with or without switch. ⅜" bushing held to close tolerance for good shaft fit. Ground plate provides two locating tabs, either or both of which may be bent down if not needed. ¹⁵⁄₁₆" diameter, ½ watt power rating.

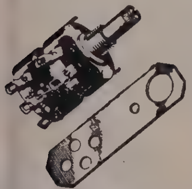
Type PQ—Has a full round ¼" shaft, approx. 3" long from mounting face, and a ⅜" bushing. Power rating ½ watt, 500 volts maximum. Molded base is blue.

Type RQ—A very short screwdriver slot shaft, ¼" diameter and approx. ½" long from mounting face. Bushing is ⅜". Power rating ½ watt, 500 volts maximum. Available in 32 standard values on a short delivery cycle.

Type PQ or RQ Control. Net Each.................... **75c**

ADD PREFIX LETTERS PQ OR RQ TO IRC NUMBERS BELOW

IRC No.	Resist. Ohms	Taper	IRC No.	Resist. Ohms	Taper
11-103	500	A	**11-128**	0.1 meg.	A
11-108	1M	A	**13-128**	0.1 meg.	C
11-110	2M	A	**11-130**	0.25 meg.	A
11-112	3M	A	**13-130**	0.25 meg.	C
11-114	5M	A	**11-133**	0.5 meg.	A
11-115	7.5M	A	**13-133**	0.5 meg.	C
11-116	10M	A	**11-137**	1.0 meg.	A
13-116	10M	C	**13-137**	1.0 meg.	C
14-116	10M	D	**11-138**	1.5 meg	A
11-119	20M	A	**11-139**	2.0 meg.	A
11-120	25M	A	**13-139**	2.0 meg.	C
14-120	25M	D	**11-239**	2.5 meg.	A
11-121	30M	A	**11-140**	3.0 meg.	A
11-123	50M	A	**13-140**	3.0 meg.	C
13-123	50M	C	**11-141**	5.0 meg.	A
14-123	50M	D	**11-143**	10.0 meg.	A



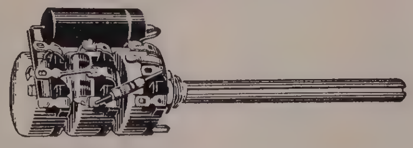
TV ATTENUATOR

- **Reduces overloading effects on TV sets in strong signal areas.**
- **Diminishes interstation interference caused by nearby or powerful stations.**
- **Minimizes buzz due to high signal level in intercarrier systems.**
- **Permits easy adjustment of signal right at set.**
- **Frequently prevents mismatch of antenna load to set.**

Easily installed, the QJ-3 TV Attenuator permits ready adjustment of signal input to TV sets. Also useful in service work—duplicating fringe area signals when shop is near strong local station.

IRC Type QJ-3 TV Attenuator—Net Each............. $\$1^{98}$

MODEL LC1 CONTINUOUSLY VARIABLE LOUDNESS CONTROL



Maintains proper balance of all frequencies in the audio spectrum at any listening level. With this control it is possible to reduce the output system to nearly whisper level and still retain nearly perfect balance in tone. This new loudness control is as easy to wire into an audio circuit as any standard three-terminal volume control.

Consists of three variable resistance units operated from one common shaft and in combination with the proper resistors and capacitors.

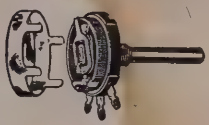
This unit is available constructed, or may be assembled in a short time with a standard IRC Type Q Volume Control and two IRC MULTISECTIONS. The multisections are rear control sections so designed that they may be added to Type Q controls in the same manner as switches. Necessary room behind panel: 1¾" for no switch; 2⁵⁄₁₆" with switch.

IRC Model LC1—Loudness Control, less switch. Net... $\$5^{97}$

IRC PARTS FOR ASSEMBLY OF ABOVE CONTROL

IRC Part	Description	Net Each
Q11-133	Control (panel section)...............	**75c**
M13-137	MULTISECTION (2nd section).......	**75c**
M13-138	MULTISECTION (rear section)......	**75c**
BTS	0.1 megohm, ½ watt resistor..........	**12c**
BTS	10K ohm, ½ watt resistor.............	**12c**

Requires 82 mmf capacitor (capacitors not supplied separately; .03 mfd. capacitor by IRC).



TYPE "W" 2 WATT WIRE WOUND CONTROLS

Provide uniform resistance change. Shaft 2¹⁵⁄₁₆". Body 1¼" x ⁹⁄₁₆" overall. No switch. Net Each.................. 75^{c}

Type "W" Control—CTF or TV uses. Net Each.......................... **$1.11**

TYPE WK CONTROLS

Identical to Type W except equipped with IRC Knob Master Shaft for fitting to both knurled and flatted knobs. Type W switches may be used on WK controls. Bushing ¼" long. Shaft 3" from mounting face. Net Each.................. 75^{c}

IRC No.	Resistance Ohms	IRC No.	Resistance Ohms	IRC No.	Resistance Ohms
W-2	2	**W-100**	100	**WK-2500**	2500
W-3	3	**W-200**	200	***WK-2500R**	2500
W-5	5	**WK-250**	250	**W-3000**	3000
W-6	6	**W-300**	300	**WK-3000**	3000
W-8	8	**W-400**	400	**W-4000**	4000
W-10	10	**W-500**	500	**W-5000**	5000
W-15	15	**W-750**	750	***WK-5000**	5000
W-20	20	***WK-750L**	750	**W-7500**	7500
W-25	25	***WK-750R**	750	***WK-7500**	7500
W-30	30	**W-1000**	1000	**W-10000**	10000
W-40	40	**WK-1000**	1000	**WK-10000**	10000
W-50	50	**WK-1500**	1500	***WK-12500**	12500
W-60	60	**W-2000**	2000		
W-75	75	**WK-2000**	2000		

*New Controls required for TV replacement.

SWITCHES FOR ABOVE CONTROLS

IRC Type 51—SPST. Net **36c**; **IRC Type 52**—DPST. Net **45c**; **IRC Type 53**—SPDT. Net **45c**; **IRC Type 54**—3 point switch. Net **45c**; **IRC Type 55**—4 point switch. Net **45c**; **IRC Type 56**—Special SPDT switch (throws at clockwise position) Net **45c**; **IRC Type 57**—SPST switch with dummy lug. Net **45c**.

TELEVISION CENTERING CONTROLS

IRC No.	Resistance	Net Each
W50X25	50 ohms, center tapped	$\$1^{11}$
W30X15	30 ohms, center tapped	
W20X10	20 ohms, center tapped	
W10X5	10 ohms, center tapped	

MULTISECTIONS FOR STANDARD DUALS

Complete control sections that can be added like a switch to any Q, PQ or RQ Control. Provide an endless variety of dual, triple and quadruple controls. Fit Type 76 switches. Net.. **75c**

IRC No.	*T	Res.	IRC No.	*T	IRC No.	*T	Res.
M11-103	A	500	**M11-123**	A	**M13-137**	C	1.0 Meg
M11-108	A	1000	**M11-128**	A	**M13-138**	C	1.5 Meg
M11-110	A	2000	**M13-128**	C	**M11-139**	A	2.0 Meg
M11-112	A	3000	**M11-130**	A	**M13-139**	C	2.0 Meg
M11-114	A	5000	**M13-130**	C	**M13-140**	C	3.0 Meg
M11-116	A	10K	**M11-133**	A	**M14-140**	Q	3.0 Meg
M17-116	Q	10K	**M13-133**	C	**M11-141**	A	5.0 Meg
M11-120	A	25K	**M11-137**	A	**M11-143**	A	10.0 Meg
M11-121	A	30K					

*T—Taper.

IRC CONCENTRIPAKS

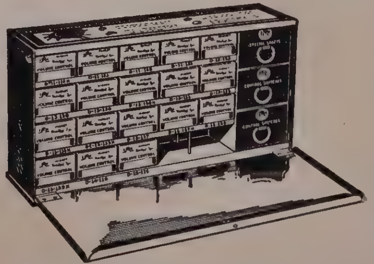
Concentripak For Philco-KC-1. Replaces any one of 13 Philco concentric duals plus 21 specific controls of 18 other popular makes. Packed in sturdy hinged top plastic stock box. Net Each.................................... $\$10^{20}$

Concentripak For RCA—KC-2. Replaces any one of 14 RCA concentric dual controls plus 38 part number listings of 17 other manufacturers. Sturdy, hinged top plastic stock box. Net Each.................................... $\$7^{44}$

Concentripak For Admiral—KC-3. Replaces any one of 14 Admiral concentric dual controls plus additional controls for Packard Bell, Sparton, and Stromberg-Carlson. Plastic stock box. Net Each.................................... $\$7^{80}$

Concentrikit Stock Cabinet—Assortment No. 14. Provides coverage of 240 concentric dual listings, (equivalent of 149 different concentric duals). Contained in sturdy IRC four drawer all metal stock cabinet with 28 compartments. Includes complete data sheets. Net Each............................ $\$26^{76}$

TYPE Q CONTROL CABINET

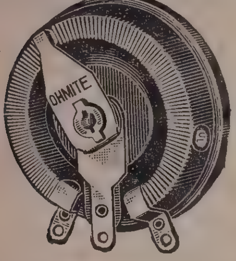


Stocked with 18 new Type Q Controls, plus switches and special shafts. Will handle over 90% of all AM, FM, and TV control replacements. Beautiful modern appearance. Individually marked compartments. Three drawers. Hinged front cover. Cabinet is free of charge when purchased complete with stock of Controls.

IRC Assortment No. 9—With New IRC Type Q Controls. Net Each.................................... $\$18^{54}$

Ohmite Controls and Switches

ALL PORCELAIN VITREOUS ENAMELED RHEOSTATS



Dissipate heat rapidly: insulated shafts and bushings. Copper-graphite contacts. Ratings for "free air" use.

MODEL "H" 25 WATT

Diameter 1⁹⁄₁₆" Depth behind panel 1⅜"

Ohmi. No.	Ohms Res.	Net Each	Ohmi. No.	Ohms Res.	Net Each
0140	1	$4.22	0152	125	$3.73
0141	2	3.73	0153	175	3.73
0142	3	3.73	0154	250	3.73
0143	6	3.73	0155	350	3.73
0144	8	3.73	0156	500	3.73
0145	10	3.73	0157	750	3.73
0146	15	3.73	0158	1000	4.22
0147	25	3.73	0159	1500	4.22
0148	35	3.73	0160	2500	4.22
0149	50	3.73	0161	3500	4.43
0150	75	3.73	0162	5000	4.43
0151	100	3.73			

MODEL "J" 50 WATT

Diameter 2⁵⁄₁₆" Depth behind panel 1⅜"

0308	0.5	4.69	0321	150	4.22
0309	1	4.69	0322	225	4.22
0310	2	4.69	0323	300	4.22
0311	4	4.22	0324	500	4.22
0312	6	4.22	0325	800	4.43
0313	8	4.22	0326	1000	4.43
0314	12	4.22	0327	1600	4.43
0315	16	4.22	0328	2500	4.43
0316	22	4.22	0329	3500	4.69
0317	35	4.22	0330	5000	4.69
0318	50	4.22	0331	8000	4.69
0319	80	4.22	0332	10000	4.69
0320	125	4.22			

MODEL "G" 75 WATT

Diameter 2¾". Depth behind panel 1¾"

Ohmi. No.	Ohms Res.	Net Each	Ohmi. No.	Ohms Res.	Net Each
1100	0.5	$6.34	1112	200	$5.83
1101	1	6.34	1113	300	5.83
1102	2	6.34	1114	400	5.83
1103	3	6.34	1115	500	5.83
1104	5	5.83	1116	750	6.34
1105	7.5	5.83	1117	1000	6.34
1106	10	5.83	1118	1500	6.34
1107	16	5.83	1119	2000	6.34
1108	25	5.83	1120	2500	6.34
1109	50	5.83	1121	5000	6.77
1110	75	5.83	1122	7500	7.27
1111	100	5.83	1123	10000	7.27

MODEL "K" 100 WATT

Diameter 3⅛" Depth behind panel 1¾"

0440	0.5	7.02	0452	200	6.57
0441	1	7.02	0453	300	6.57
0442	2	7.02	0454	400	6.57
0443	3	7.02	0455	500	6.57
0444	5	7.02	0456	750	6.57
0445	7.5	6.57	0457	1000	7.02
0446	10	6.57	0458	1500	7.02
0447	16	6.57	0459	2000	7.02
0448	25	6.57	0460	2500	7.02
0449	50	6.57	0461	5000	7.48
0450	75	6.57	0462	7500	7.97
0451	100	6.57	0463	10000	8.42

MODEL "L" 150 WATT

Diameter 4". Depth behind panel 2"

0524	0.5	8.90	0537	150	8.42
0525	1	8.90	0538	200	8.42
0526	2	8.90	0539	250	8.42
0527	3	8.90	0540	350	8.42
0528	5	8.90	0541	500	8.42
0529	7.5	8.90	0542	750	8.90
0530	10	8.42	0543	1250	8.90
0531	15	8.42	0544	1800	9.37
0532	25	8.42	0545	2250	9.37
0533	35	8.42	0546	3000	9.37
0534	50	8.42	0547	4500	9.82
0535	75	8.42	0548	7500	10.30
0536	100	8.42	0549	10000	11.23

MODEL "P" 225 WATT

Diameter 5". Depth behind panel, 2⅛".

Ohmi. No.	Ohms Res.	Net Each	Ohmi. No.	Ohms Res.	Net Each
1250	1	11.66	1261	100	11.66
1251	2	11.66	1262	150	11.66
1252	3	11.66	1263	200	11.66
1253	4	11.66	1264	300	11.66
1254	5	11.66	1265	400	11.66
1255	7.5	11.66	1266	700	11.66
1256	10	11.66	1267	900	11.66
1257	15	11.66	1268	1200	11.66
1258	25	11.66	1269	1500	11.66
1259	50	11.66	1270	1750	11.66
1260	75	11.66	1271	2500	11.66

MODEL "N" 300 WATT

Diameter 6". Depth behind panel 2⅜"

Ohmi. No.	Ohms Res.	Net Each	Ohmi. No.	Ohms Res.	Net Each
0650	1	12.64	0661	100	12.64
0651	2	12.64	0662	150	12.64
0652	3	12.64	0663	200	12.64
0653	4	12.64	0664	300	12.64
0654	5	12.64	0665	400	12.64
0655	7.5	12.64	0666	700	12.64
0656	10	12.64	0667	900	12.64
0657	15	12.64	0668	1200	12.64
0658	25	12.64	0669	1500	12.64
0659	50	12.64	0670	1750	12.64
0660	75	12.64	0671	2500	12.64

MODEL "R" 500 WATT

Diameter 8". Depth behind panel, 2⅛"

0849	1.0	18.27	0872	50	18.27
0850	1.5	18.27	0861	80	18.27
0851	2	18.27	0862	125	18.27
0852	2.5	18.27	0863	175	18.27
0853	3	18.27	0864	250	18.27
0854	4	18.27	0865	325	18.27
0855	5	18.27	0866	500	18.27
0856	8	18.27	0867	750	18.27
0857	12.5	18.27	0868	1000	18.27
0858	16	18.27	0869	1500	18.27
0859	25	18.27	0870	2000	18.27
0860	40	18.27	0871	2500	18.27

MODEL "T" 750 WATT

Diameter, 10". Depth behind panel, 3".

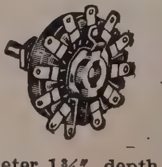
1300	1	25.78	1312	50	25.78
1301	1.5	25.78	1313	80	25.78
1302	2	25.78	1314	100	25.78
1303	2.5	25.78	1315	160	25.78
1304	3	25.78	1316	200	25.78
1305	4	25.78	1317	300	25.78
1306	5	25.78	1318	400	25.78
1307	8	25.78	1319	600	25.78
1308	10	25.78	1320	750	25.78
1309	12.5	25.78	1321	1200	25.78
1310	16	25.78	1322	1800	25.78
1311	25	25.78	1323	2500	25.78

MODEL "U" 1000 WATT

Diameter, 12". Depth behind panel, 3".

1450	1	30.13	1462	50	30.13
1451	1.5	30.13	1463	75	30.13
1452	2	30.13	1464	100	30.13
1453	2.5	30.13	1465	175	30.13
1454	3	30.13	1466	225	30.13
1455	4	30.13	1467	300	30.13
1456	5	30.13	1468	400	30.13
1457	8	30.13	1469	500	30.13
1458	10	30.13	1470	750	30.13
1459	12.5	30.13	1471	1000	30.13
1460	16	30.13	1472	1500	30.13
1461	25	30.13	1473	2500	30.13

POWER TAP SWITCHES



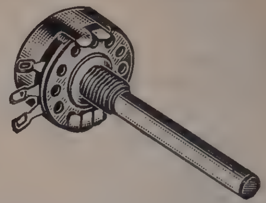
Single pole, multi-position switch with all-ceramic insulation, silver-to-silver contacts and "slow break" action designed especially for AC. Switch shaft is electrically "dead".

Dimensions:

Model 111-AC rating 10 amperes, 150 volts. Diameter 1¾", depth behind panel 1⅛", shaft diameter is ¼".

Model 212—AC rating is 15 amperes, 150 volts. Diameter 2¼", shaft diameter ¼". Mounts in up to ¼" panel by means of a ⅜"-32 threaded bushing and hex. nut. All units supplied without knob.

TYPE AB COMPOSITION POTENTIOMETER



Type AB potentiometer is an exceptionally high quality unit designed especially for industrial, laboratory, radio service and other uses where reliability is particularly important. Because the resistor element is molded, the unit has an exceptionally large safety factor. The power rating of two watts is unusual for a unit of such small size. The unit has a very low noise level and low voltage coefficient. It will pass the Army-Navy 200 hour salt spray test. Size: 1¹⁄₁₆" diameter; extends ⁹⁄₁₆" behind panel; shaft length 2" including ⅜" bushing. SPST switch to be attached to back of control can be supplied extra. This switch is off at the extreme counterclockwise shaft position. It is rated 2 amperes at 125 volts and is Underwriters' approved. Also rated 10 amperes at 10 volts.

Type CU—50 ohms thru 5.0 megs, stock resistances only. Net Each.. **$1.95**

Type CA & CB—Stock values only. Net Each.................... **$2.25**

Type CLU—50 ohms through 5.0 megohms. Linear values only. 1¹⁄₁₆" diameter; extends ⁹⁄₁₆" behind panel; shaft length ⅝" including slotted bushing. For ⅛" maximum panel. Net Each.......................... **$2.55**

Type CCU Dual Potentiometer—Available in these values: 10,000 (CCU-1031), 25,000 (CCU-2531), 50,000 (CCU-5031) and 100,000 ohms (CCU-1041); .25 (CCU-2541), .5 (CCU-5041) and 1 meg (CCU-1052). Dimensions same as Type CU except add ⁹⁄₁₆" to extension behind panel. Net Each................ **$5.85**

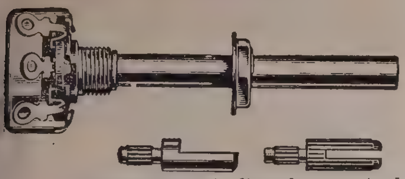
Type CS-1—Switch for AB pot. Net.............................. **$0.66**

Total Ohms, ± 10%. (* ± 20%)	Resistance Rotation Characteristics (Taper)			
	Locking Shaft Stock No. Prefix CLU-	Linear Stock No. Prefix CU-	Clock-wise Log. Stock No. Prefix CA-	Counter Clock. Log. Stock No. Prefix CB-
50	5001	5001	......	......
100	1011	1011	......	......
250	2511	2511	......	......
500	5011	5011	......	......
1000	1021	1021	......	......
2500	2521	2521	......	......
5000	5021	5021	......	......
10,000	1031	1031	......	1031
25,000	2531	2531	......	2531
50,000	5031	5031	......	5031
.10 Meg.	1041	1041	1041	......
.25 Meg.	2541	2541	2541	......
.5 Meg.	5041	5041	5041	......
*1.0 Meg.	1052	1052	1052	......
*2.5 Meg.	2552	2552	2552	......
*5.0 Meg.	5052	5052	......	......

Ohmite No.	Total Rotation°	No. Taps	Net Each
111-11	300	11	$2.80
111-10	270	10	2.72
111-9	240	9	2.72
111-8	210	8	2.62
111-7	180	7	2.62
111-6	150	6	2.51
111-5	120	5	2.51
111-4	90	4	2.44
111-3	60	3	2.44
111-2	30	2	2.44
212-12	330	12	7.02
212-11	300	11	7.02
212-10	270	10	6.79
212-9	240	9	6.79
212-8	210	8	6.57
212-7	180	7	6.57
212-6	150	6	6.32
212-5	120	5	6.32
212-4	90	4	6.08
212-3	60	3	6.08
212-2	30	2	6.08

Mallory Controls and Switches

MALLORY MIDGETROL



A high quality round shaft carbon control 15/16″ in dia., designed to fit all applications. Special resistance element has ample safety factor for current-carrying ability. New type contact makes control smooth and quiet. New round shaft is easily cut to any required length. Shaft is machined to exact dimensions to meet replacement requirements. Two steel shaft and knob adapters for knurled or push-on knobs and one hex nut are included. Shipping weight 3 oz. Net Each.................. **75c**

Mall. No.	Resis. Ohms	Taper	Mall. No.	Resis. Ohms	Taper
U-4	1M	4	**U-415**	125M	4
U-6	2M	4	**U-42**	150M	1
U-8	2M	4	**U-43**	200M	4
U-12	5M	1	**U-44**	250M	1
U-14	5M	4	**U-45**	250M	2
U-18	10M	1	**U-46**	250M	4
U-19	10M	2	**U-48**	500M	1
U-20	10M	4	**U-50**	500M	4
U-21	15M	1	**U-51**	750M	1
U-22	15M	2	**U-53**	1 Meg.	1
U-24	20M	1	**U-54**	1 Meg.	4
U-26	20M	4	**U-155**	1.5 Meg.	4
U-28	25M	2	**U-55**	2 Meg.	1
U-29	25M	4	**U-56**	2 Meg.	4
U-33	50M	1	**U-255**	2.5 Meg.	1
U-34	50M	2	**U-57**	3 Meg.	1
U-35	50M	4	**U-59**	3 Meg.	4
U-36	75M	1	**U-65**	5 Meg.	1
U-39	100M	1	**U-67**	5 Meg.	4
U-40	100M	2	**U-82**	10 Meg.	4
U-41	100M	4	....		

TAPPED MIDGETROLS

Same as above but are tapped to provide tone compensation where required. Net Each............... **$1.11**

TYPE UT SINGLE TAPPED

Mall. No.	Resis. Ohms	Tap At	Mall. No.	Resis. Ohms.	Tap At
420	250M	50M	**443**	1 Meg.	450M
425	350M	70M	**450**	2 Meg.	125M
427	500M	100M	**448**	2 Meg.	250M
429	500M	50M	**449**	2 Meg.	600M
430	500M	150M	**454**	2 Meg.	400M
431	500M	225M	**451**	2 Meg.	900M
438	1 meg.	300M	**457**	3 Meg.	900M
440	1 Meg.	200M			

TYPE UDT DOUBLE TAPPED

Mallory No.	Overall Resis.	Tap Resistance	
		Tap 1	Tap 2
UDT-283	500M	100M	200M
UDT-289	1 meg.	250M	500M
UDT-291	1.5 meg.	225M	500M
UDT-295	2.25 meg.	250M	500M
UDT-296	2.25 meg.	500M	1 meg.

TV AND SPECIAL MIDGETROLS

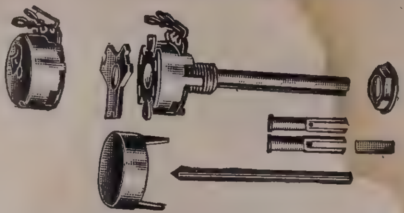
For use as exact replacements. Except for the shaft, these Midgetrols are of the same basic construction as the standard. A fixed, knurled, and slotted bakelite shaft protrudes 1/4″ beyond the bushing. Type SUD-1253 is exact replacement for Zenith Model 28F20 and includes switch.

Mallory No.	Resist. Ohms	Taper	Net Each
SU-14	5M	4	**75c**
SU-20	10M	4	
SU-29	25M	4	
SU-35	50M	4	
SU-41	100M	4	
SU-46	250M	4	
SU-50	500M	4	
SU-54	1 meg.	4	
SU-56	2 meg.	4	
SU-565	2.5 meg.	4	
SU-59	3 meg.	4	
SU-67	5 meg.	4	

MIDGETROL SWITCHES, ETC.

Mallory No.	Description	Net Each
US-26	SPST Switch............	**36c**
US-26T	SPST Switch with Dummy Term.........	**45c**
US-27	DPST Switch...........	**36c**
US-28	SPDT Switch...........	**45c**

DUAL CONCENTRIC MIDGETROLS



Designed to duplicate original equipment quickly, easily and economically. Both front and rear sections measure 15/16″ dia. No special tools or soldering is necessary to assemble front and rear sections. Special bearing surface located on the inner shaft knob ends eliminate binding or eccentricity between the inner and outer shafts. Included with each front section is one inner shaft, one bakelite spacer, one coupling cup and two shaft ends patterned to fit .187 and .202 RTMA std. flatted or split knobs.

Type UF—Front Section and Hardware—Net Each........... **$1.20**

Type UR—Rear Section. Net Each..................... **60c**

Front Section			Rear Section		
Mallory No.	Resis. Ohms	Taper	Mallory No.	Resis. Ohms	Taper
UF13L	1000	4	**UR13L**	1000	4
UF152L	1500	4	**UR152L**	1500	4
UF23L	2000	4	**UR23L**	2000	4
UF252L	2500	4	**UR352L**	3500	4
UF33L	3000	4	**UR53R**	5000	2
UF53R	5000	2	**UR53L**	5000	4
UF53L	5000	4	**UR14R**	10M	2
UF73R	7000	2	**UR14L**	10M	4
UF14L	10M	4	**UR253L**	25M	4
UF253R	25M	2	**UR54L**	50M	4
UF253L	25M	4	**UR15R**	100M	2
UF34A	30M	1	**UR15L**	100M	4
UF54A	50M	1	**UR254A**	250M	1
UF54L	50M	4	**UR254L**	250M	4
UF753L	75M	4	**UR354A**	350M	1
UF15A	100M	1	**UR55A**	500M	1
UF15R	100M	2	**UR35L**	500M	4
UF15L	100M	4	**UR16A**	1 meg.	1
UF254A	250M	1	**UR16L**	1 meg.	4
UF254L	250M	4	**UR26A**	2 meg.	1
UF55A	500M	1	**RU26L**	2 meg.	4
UF55R	500M	2	**UR36A**	3 meg.	1
UF55L	500M	4	**UR36L**	5 meg.	4
UF16A	1 meg.	1	....	....	...
UF16L	1 meg.	4	....	....	...
UF155A	1.5mg.	1	....	....	...
UF26A	2 meg.	1	....	....	...
UF26L	2 meg.	4	....	....	...
UF255L	2.5mg.	4	....	....	...
UF46A	4 meg.	1	....	....	...
UF106L	10 mg	1	....	....	...

WIRE-WOUND FRONT SECTIONS

Diameter, 1 7/16″.
Type WF—Net Each............ **$1.26**
Types 75LT251, 13-T251, 252-T223—Net Each............................**$1.50**

Mallory No.	Ohms	Mallory No.	Ohms
32	300	**252**	2500
751	750	**252-T23**	2500
751-T251	750*	**23**	2000
13	1000	**33**	3000
13-T251	1000*	**53**	5000
152	1500	**73**	7000

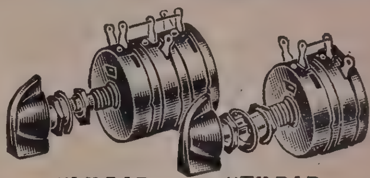
*Tapped at 250 ohms.

SINGLE TAPPED CONTROLS

Same as above except tapped to provide tone compensation where required.
Front Section—Net Each........**$1.35**
Rear Section—Net Each........ **.75**

Front Section Prefix UF			Rear Section Prefix UR		
Mall. No.	Res. Ohm	Tap At	Mall. No.	Res. Ohm	Tap At
254-T753	250M	75M	**254T753**	250M	75M
55T54	500M	50M	**354T74**	350M	70M
55T254	500M	250M	**55T54**	500M	50M
16T154	1meg.	150M	**55T254**	500M	250M
16T25	1meg.	200M	**16T1253**	1meg.	125M
16T35	1meg.	300M	**16T25**	1meg.	200M
26T55	2meg.	500M	**16T254**	1meg.	250M
....	......	.....	**16T35**	1meg.	300M
....	......	.....	**26T25**	2meg.	200M
			26T95	2meg.	900M

T AND L PAD ATTENUATORS



For controlling level of low impedance audio circuits and for volume controls. May be used with audio amplifiers having peak audio rating of 15 watts. Have continuous DC dissipation rating of 4 watts. Shaft and bushing specifications are same as for "M" type controls in dual and triple unit construction. Furnished with bar knob, dial plate with matched rotation, nut and washer.

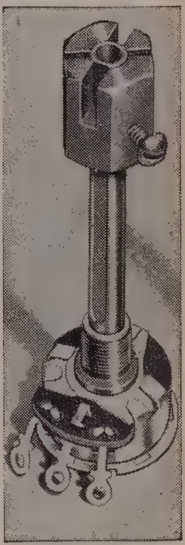
"T" Pad Attenuators Net Each. **$2.55**

Cat. No.	Ohms Imped.	Cat. No.	Ohms Imped.
T2	2	**T200**	200
T4	4	**T250**	250
T6	6	**T500**	500
T8	8	**T600**	600
T15	15	**T1000**	1000
T50	50	**T2000**	2000
T100	100	**T3000**	3000

"L" Pad Attenuators—Net Each........................ **$2.25**

Cat. No.	Ohms Imped.	Cat. No.	Ohms Imped.
L2	2	**L200**	200
L4	4	**L250**	250
L6	6	**L500**	500
L8	8	**L600**	600
L15	15	**L1000**	1000
L50	50	**L2000**	2000
L100	100	**L3000**	3000

MIDGETROL SLOTTING JIG



Rapid slotting of Mallory Midgetrol shafts is possible with this handy slotting jig. It is easy to cut accurate slots in control shafts to fit standard control knobs. 1/8″ and 1/16″ slots in the jig guide the file or hacksaw in cutting the slots. Jig also may be used as a vise chuck for holding the shaft while cutting to required length. Easy to use—just slip jig over end of shaft, tighten set screw, and cut the slot with hacksaw or file. Made of hardened 5/8″ hexagonal steel stock, cadmium plated. 3/4″ long with lengthwise hole to accommodate the shaft. Set screw holds shaft in place.

Mallory No. FJ1—Slotting Jig. Net Each..... **75c**

EXPLANATION OF TAPERS

Taper No. 1—A modified logarithmic left hand taper. For use in audio or antenna shunt circuits or where only the center and left hand terminals are used.

Taper No. 2—A right hand logarithmic taper. Used in series circuits as in cathode voltage controls or where only the center and right hand terminals are used.

Taper No. 3—A combination left and right hand taper. For use in circuits where the control must perform both as a shunt and as a series control.

Taper No. 4—A linear taper. Really not a taper but commonly referred to as such. Used wherever a control should be such that voltage change is proportional to the degree of rotation.

Taper No. 4A—A modification of No. 4.

Taper No. 7—A form of left hand taper made only in the wire-wound types. Desirable for the antenna shunt plus bias control.

ACCESSORY PARTS

DS-35—Flatted split knurl shaft end. Special for Zenith. Net Each........**27c**

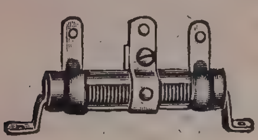
DS-36—Special 3″ extension shaft for tubular shaft Midgetrols and 2-watt wire-wound controls. Also used to couple a front and rear section together to make a single-shaft dual control for oscilloscope and other push-pull amplifier service. Net **27c**

EB-158—Special bushing 7/16″—28 thread, 1 11/16″ long with 3/8″ milled double flat. Net Each............................**36c**

EB-214—Special bushing 1/2″—28 thread, 2 1/4″ long with .430 milled flat. Ne ..**36c**

Ward Leonard Vitrohm Resistors

VITROHM ADJUSTABLE WIRE-WOUND RESISTORS



10 WATT—TYPE 10A

Size 1¾″ x 5/16″

Ohms	Net Each
1— 1,000	$0.88
1,250— 5,000	.92
6,000—10,000	.98

25 WATT—TYPE 25A

Size 2″ x ⅝″

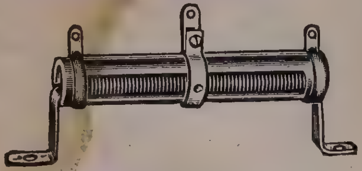
1— 1,000	$1.12
1,250— 5,000	1.13
6,000—10,000	1.22
12,000—20,000	1.27
25,000	1.37

50 WATT—TYPE 50A

Size 4½″ x ¾″

1—	$1.80
2— 1,000	1.42
1,250— 5,000	1.48
6,000—10,000	1.58
12,000—20,000	1.70
25,000—40,000	1.85
50,000—60,000	1.98
75,000—80,000	2.20
100,000	2.35

Standard Tolerance ±5%.



80 WATT—TYPE 80A

Size 6½″ x ¾″

Ohms	Net Each
1— 2	$2.12
3— 1,000	1.63
1,250— 5,000	1.70
6,000—10,000	1.80
15,000—20,000	1.90
25,000—40,000	2.10
45,000—60,000	2.17
70,000—80,000	2.36
100,000	2.60

100 WATT—TYPE 100A

Size 6½″ x 1⅛″

1— 3	$2.72
4— 1,000	2.15
1,500— 5,000	2.20
6,000—10,000	2.32
15,000—20,000	2.47
25,000—40,000	2.62
50,000—60,000	2.72
75,000	2.85
100,000	2.97

Ward Leonard ADJUSTOHMS are widely used as voltage dividers; or for obtaining intermediate resistance values; or where quick adjustment of resistance is desired. Resistance wire and refractory core are vitreous enameled, with a narrow strip of the winding left bare on one side for the contact on the adjustable band. The exclusive vitreous enamel specially developed by Ward Leonard is tough, crazeless, acid and moisture-resistant—quickly conducts away generated heat. One adjustable band with each resistor. Extra bands available.

160 WATT—TYPE 160A

Size 8½″ x 1⅛″

Ohms	Net Each
1— 5	$3.20
10— 1,000	2.48
1,500— 5,000	2.51
7,500—10,000	2.66
15,000—20,000	2.81
25,000—40,000	2.89
50,000—60,000	2.96
75,000—80,000	3.10
100,000	3.26

200 WATT—TYPE 200A

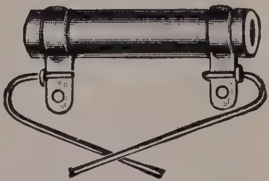
Size 10½″ x 1⅛″

1— 5	$3.40
10— 1,000	2.62
1,500— 5,000	2.67
7,500—10,000	2.82
15,000—20,000	2.95
25,000—40,000	3.02
50,000—60,000	3.10
75,000	3.25
100,000	3.40
125,000	3.40
150,000	3.40

VITROHM FIXED WIRE-WOUND RESISTORS

Uniform winding on refractory core is held in place, insulated, protected by special tough, crazeless, acid and moisture resistant WL vitreous enamel. 5, 10, and 20 watt sizes mount by wire leads. Larger sizes have brackets. Sizes: 5 watt—1″ x 5/16″; 10 watt—1¾″ x 5/16″; 20 watt—2″ x 9/16″; 25 watt—2″ x ⅝″; 50 watt—4½″ x ¾″; 100 watt—6½″ x 1⅛″; 160 watt—8½″ x 1⅛″; 200 watt—10½″ x 1⅛″.

Standard Tolerance ±5%.



5 WATT—TYPE 5F

Ohms	Net Each
1—1000	$0.40
1100—5000	.43
6000—10,000	.47

10 WATT—TYPE 10F

1— 1,000	$0.45
1,100— 5,000	.48
6,000—10,000	.55
11,000—20,000	.62
22,500—25,000	.65
30,000—50,000	.73

20 WATT—TYPE 20F

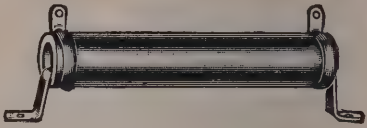
1— 1,000	$0.57
1,200— 5,000	.58
6,000—10,000	.67
12,500—20,000	.72
25,000—40,000	.82
45,000—60,000	.95
65,000—80,000	1.10
85,000—100,000	1.27

25 WATT—TYPE 25F

Ohms	Net Each
1— 1,000	$0.58
1,250— 5,000	.62
6,000—10,000	.68
12,000—20,000	.71
25,000—40,000	.82
50,000—60,000	.94
70,000—80,000	1.10
100,000	1.27

50 WATT—TYPE 50F

1— 2	$1.35
2— 1,000	.98
1,500— 5,000	1.05
6,000—10,000	1.15
12,000—20,000	1.25
25,000—40,000	1.40
45,000—50,000	1.55
75,000	1.75
100,000	1.92
125,000	2.02
150,000	2.10
175,000	2.18
200,000	2.27
225,000	2.53
250,000	2.53



100 WATT—TYPE 100F

Ohms	Net Each
1— 3	$2.02
4— 1,000	1.45
1,250— 5,000	1.52
7,500—10,000	1.62
15,000—20,000	1.78
25,000—40,000	1.92
50,000—60,000	2.02
70,000—75,000	2.15
100,000	2.28

160 WATT—TYPE 160F

1— 5	$2.50
10— 1,000	1.80
1,500— 5,000	1.82
7,500—10,000	1.98
15,000—20,000	2.12
25,000—40,000	2.18
50,000—60,000	2.26
75,000	2.42
80,000—100,000	2.56

200 WATT—TYPE 200F

1— 5	$2.72
10— 1,000	1.93
1,500— 5,000	1.98
7,500—10,000	2.12
15,000—20,000	2.26
25,000—40,000	2.34

DISCOHM WIRE-WOUND RESISTORS—24 WATTS—TYPE 24D

Discohm Resistors are compactly built and are especially useful in equipments where space is limited and where a power resistor having a low value of inductance and distributed capacitance is required.

Construction—Discohm Resistors are flat refractory discs on which resistance wire of low temperature coefficient of resistivity is arranged to minimize the values of inductance and distributed capacitance. Flat copper terminals are silver-soldered to the resistance wire and the entire assembly is protected by a fused-on vitreous enamel.

The resistor is a solidified mass with no air pockets between the materials. The vitreous enamel is especially designed for its heat conducting properties.

Mounting — Discohm Resistors are mounted by means of a No. 8 wood screw or bolt through the countersunk center hole cast in the refractory base.

Two or more units can be mounted together to obtain the desired resistance value and watt rating.

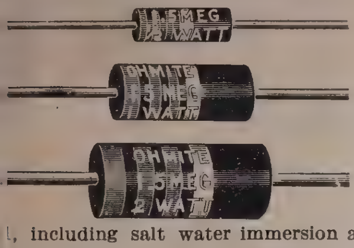
Watt Rating—Discohm Resistors are rated at 24 watts based on a temperature rise of 300° C (540° F) under conditions of free ventilation (one foot of free air space in all directions).

A single resistor mounted on a panel should operate safely at 80% of the full watt rating or 90% of the full current rating. Standard Tolerance ±10%.

Ohms	Current M. A.	Net Each
1	4899	$\$1^{24}$
3	2828	
5	2199	
10	1548	
15	1265	
25	999	
50	699	1^{27}
100	489	
150	400	1^{32}
200	346	
250	309	
400	245	
500	219	
750	178	
1000	154	
1250	138	
1500	126	
2000	109	
2500	99	
3000	89	
3500	82	
4000	77	

Ohmite Resistors and Kits

LITTLE DEVIL" MOLDED COMPOSITION RESISTORS



Ohmite "Little Devils" are full ½ watt, 1 watt and 2 watt resistors . . . and can be used at their full wattage ratings at 70° C (158° F) ambient temperature. They dissipate heat rapidly . . . have low noise level and low voltage coefficient. "Little Devils" meet test requirements for the best quality characteristics of JAN-R-, including salt water immersion and high humidity tests.

hey are available from stock in ½, 1 and 2 watt sizes with ±10% ±5% tolerance. The standard RTMA values, 10 ohms to 22 egohms can be furnished. In the 1 watt size ±10% tolerance, alues as low as 2.7 ohms are available from stock. All resistors ave 1½" tinned wire leads.

atings for maximum continuous RMS voltage drop are high: 50 volts for the ½ watt unit—500 volts for the 1 watt unit—1000 olts for the 2 watt unit. Units have high insulation breakdown oltage.

STOCK RESISTORS

igures in large, **bold type** are ±10% RTMA values. All values xcept those marked *) available in ±5% tolerance.

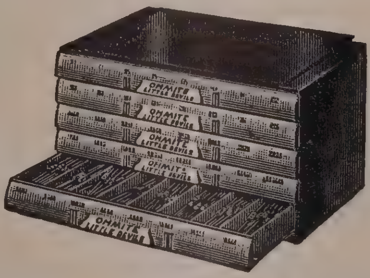
hms	Ohms	Ohms	Ohms	Ohms	Megs	Megs	Megs
2.7*	**39**	300	**2200**	16000	**0.1**	0.75	**5.6**
3.3*	43	**330**	2400	**18000**	0.11	**0.82**	6.2
3.9*	**47**	360	**2700**	20000	**0.12**	0.91	**6.8**
4.7*	51	**390**	3000	**22000**	0.13	**1.0**	7.5
5.6*	**56**	430	**3300**	24000	**0.15**	1.1	**8.2**
6.8*	62	**470**	3600	**27000**	0.16	**1.2**	9.1
8.2*	**68**	510	**3900**	30000	**0.18**	1.3	**10.0**
10	75	**560**	4300	**33000**	0.20	**1.5**	11.0
11	**82**	620	**4700**	36000	**0.22**	1.6	**12.0**
12	91	**680**	5100	**39000**	0.24	**1.8**	13.0
13	**100**	750	**5600**	43000	**0.27**	2.0	**15.0**
15	110	**820**	6200	**47000**	0.30	**2.2**	16.0
16	**120**	910	**6800**	51000	**0.33**	2.4	**18.0**
18	130	**1000**	7500	**56000**	0.36	**2.7**	20.0
20	**150**	1100	**8200**	62000	**0.39**	3.0	**22.0**
22	160	**1200**	9100	**68000**	0.43	**3.3**	......
24	**180**	1300	**10000**	75000	**0.47**	3.6	......
27	200	**1500**	11000	**82000**	0.51	**3.9**	......
30	**220**	1600	**12000**	91000	**0.56**	4.3	......
33	240	**1800**	13000	....	0.62	**4.7**	......
36	**270**	2000	**15000**	....	**0.68**	5.1	......

watt size only, ±10% tolerance.

SPECIFICATIONS, PRICING

atts	Tol.	Size, Ins.		Resistance Range	Net Each	Net Each Lot of 100
		Lgth.	Diam			
½	±5%	⅜	9/64	10 ohms to	20c	12c
½	±10%	⅜	9/64	22 megohms	10c	6c
1	±5%	9/16	7/32	2.7 ohms to	30c	18c
1	±10%	9/16	7/32	22 megohms	15c	9c
2	±5%	11/16	5/16	10 ohms to	40c	24c
2	±10%	11/16	5/16	22 megohms	20c	12c

OHMITE LITTLE DEVIL RESISTOR ASSORTMENTS



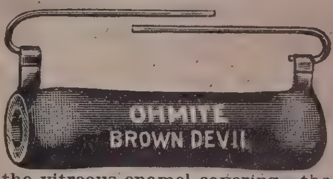
even different assortents contain ratings, vales and tolerances for ery service and indusial need. Each assortent is packed in an atactive, lustrous black d maroon solid-molded astic cabinet, specially signed for quick, easy sistor selection. Each binet has five drawers, th eight compartments each drawer. Single cabets are 9" long, 4¾" high, d 5¼" deep. Service asrtments use one cabit; ±10% Industrial assortments use two cabinets firmly fastened gether; and the ±5% Industrial assortments consist of four binets. Resistance and Wattage marked on every Little Devil sistor.

RADIO SERVICE ASSORTMENTS

±10% Tolerance, 40 Resistance Values	Net Each
hmite No. CAB-2—Contains 125 1 watt resistors...	18.75
hmite No. CAB-3—Contains 125 2 watt resistors...	25.00
mite No. CAB-10—Contains 150 ½ watt resistors..	15.00

VE CARRY A COMPLETE INVENTORY OF RADIO, TELEVISION AND SPECIAL PURPOSE RESISTORS. DO NOT HESITATE TO INQUIRE ABOUT UNLISTED OR NEW TYPES.

"BROWN DEVIL" FIXED RESISTORS



Wire-wound vitreous enameled units which may be conveniently mounted by their tinned wire leads. The vitreous coating provides the best protection against humidity, fumes and mechanical damage. Because of their single-layer winding, the generated heat is rapidly conducted to the surface through the vitreous enamel covering—the best conductor of heat. Wire temperature is kept much lower.

5 WATT BROWN DEVILS

Core: 1" x 5/16". 1½" tinned wire leads.

Ohms	Maximum		Ohms	Maximum		Ohms	Maximum	
	Amps	Volts		Amps	Volts		Amps	Volts
1.0	2.236	2.2	125	.200	25	1250	.063	79
1.5	1.82	2.7	150	.182	27	1500	.057	86
2.0	1.58	3.2	200	.158	32	1750	.053	92
3.0	1.29	3.9	225	.149	34	2000	.049	98
4.0	1.12	4.5	250	.141	35	2250	.046	103
5.0	1.000	5.0	300	.129	39	2500	.044	107
7.5	.818	6.1	350	.120	42	3000	.039	117
10	.700	7.0	400	.112	45	3500	.036	126
12	.645	7.8	450	.105	47	4000	.033	135
15	.575	8.7	500	.100	50	4500	.031	140
20	.500	10	600	.091	55	5000	.029	146
25	.447	11	700	.084	59	6000	.026	157
30	.408	12	750	.081	62	7000	.024	163
35	.378	13	800	.079	63	7500	.022	172
40	.353	14	900	.074	67	8000	.021	176
50	.316	16	1000	.070	71	9000	.019	184
75	.258	19	1100	.067	75	10M	.018	188
100	.224	22	1200	.064	78	......	......	......

1 to 1,000 ohms. Net Each	40c
1,100 to 5,000 ohms. Net Each	43c
6,000 to 10,000 ohms. Net Each	47c

10 WATT BROWN DEVILS

Cores: 1¾" x 5/16". 1½" tinned wire leads.

Ohms	Maximum		Ohms	Maximum		Ohms	Maximum	
	Amps	Volts		Amps	Volts		Amps	Volts
0.4	5.000	2.0	250	.200	50	6000	.038	230
1.0	3.160	3.1	300	.182	54	7000	.034	237
1.2	2.820	3.5	350	.169	59	7500	.032	243
1.3	2.740	3.6	400	.158	63	8000	.031	247
1.5	2.580	3.8	450	.149	67	8500	.029	250
2.0	2.235	4.4	500	.141	70	10M	.026	260
3.0	1.825	5.4	600	.129	77	11M	.024	265
4.0	1.580	6.3	700	.119	83	12M	.023	273
5.0	1.414	7.0	750	.115	86	12.5M	.022	275
7.5	1.155	8.6	800	.111	88	13.5M	.021	283
10	1.000	10	900	.105	94	14.3M	.020	287
12	.910	11	1000	.100	100	15M	.019	290
15	.816	12	1100	.095	104	16M	.018	295
20	.707	14	1200	.091	109	17.5M	.017	310
25	.632	15	1250	.089	111	18M	.017	317
30	.575	17	1500	.079	119	20M	.016	320
35	.535	18	1750	.074	130	22.5M	.015	338
40	.500	20	2000	.069	138	25M	.014	355
50	.447	22	2250	.064	144	30M	.012	356
75	.365	27	2500	.063	154	35M	.010	357
100	.316	31	3000	.056	169	40M	.009	358
125	.283	35	3500	.051	179	45M	.008	359
150	.258	38	4000	.047	190	50M	.007	360
200	.223	44	4500	.045	205	......	......	......
225	.217	47	5000	.043	215	......	......	......

Range	Net Ea.	Range	Net Ea.
.4 to 1,000 ohms	45c	11,000 to 20,000 ohms	62c
1,100 to 5,000 ohms	48c	22,500 and 25,000 ohms	65c
6,000 to10,000 ohms	55c	30,000 to 50,000 ohms	73c

20 WATT BROWN DEVILS

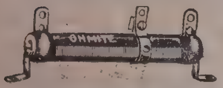
Core: 1¾" x 5/16". 1½" tinned wire leads.

Ohms	Maximum		Ohms	Maximum		Ohms	Maximum	
	Amps	Volts		Amps	Volts		Amps	Volts
0.4	7.070	2.8	1000	.141	141	12.5M	.035	445
0.6	5.760	3.4	1200	.129	155	15M	.030	455
0.8	5.000	4.0	1250	.126	158	20M	.024	475
5.0	2.000	10	1500	.115	173	25M	.020	495
10	1.414	14	1750	.107	187	30M	.017	515
25	.894	22	1850	.104	192	35M	.015	535
50	.632	31	2000	.100	200	40M	.014	560
75	.516	38	2250	.094	212	45M	.013	580
100	.447	44	2400	.091	219	50M	.012	600
150	.365	54	2500	.089	223	55M	.011	603
200	.316	63	2750	.085	234	60M	.010	606
250	.283	70	3000	.081	245	65M	.009	609
300	.258	77	3500	.075	264	70M	.009	612
350	.239	83	4000	.070	283	75M	.008	615
400	.223	89	4500	.066	300	80M	.008	618
500	.200	100	5000	.063	316	85M	.007	621
650	.175	114	6000	.057	346	90M	.007	625
700	.169	118	7000	.053	374	95M	.007	629
750	.163	122	7500	.051	387	100M	.006	633
800	.158	126	8000	.050	400	......	......	......
850	.153	130	10M	.043	436	......	......	......

Range	Net Ea.	Range	Net Ea.
.4 to 1,000 ohms	57c	25,000 to 40,000 ohms	$ .82
1,200 to 5,000 ohms	58c	45,000 to 60,000 ohms	.95
6,000 to 10,000 ohms	67c	65,000 to 80,000 ohms	1.10
12,500 to 20,000 ohms	72c	85,000 to 100M ohms	1.27

Ohmite Dividohm and Fixed Resistors

"DIVIDOHM" VITREOUS ENAMELED RESISTORS



"Dividohm" resistors are vitreous enameled or ceramic cores with a narrow strip of the wire turns exposed to form a con-surface for the embossed contact of the adjustable lug. A patented percentage of resistance scale stamped on the units, makes it easy to set the lugs at the desired value. 1 screwdriver adjust lug supplied. **10 Watt Size**—Core: 1¾″ x 5/16″. With No. 5 brackets. Mounting centers, 2¼″. **25 Watt Size**—Core: 2″ x 9/16″. With No. 9 brackets. Mounting centers 2¾″. **50 Watt Size**—Core: 4″ x 9/16″. With No. 9 brackets. Mounting centers 4¾″. **75 Watt Size**—Core: 6″ x 9/16″. With No. 9 brackets. Mounting centers, 6¾″. **100 Watt Size**—Core: 6½″ x ¾″. With No. 12 brackets. Mounting centers, 7⅜″. **160 Watt Size**—Core: 8½″ x 1⅛″. With No. 18 brackets. Mounting centers, 9⅜″. **200 Watt Size**—Core: 10½″ x 1⅛″. With No. 18 brackets. Mounting centers, 11⅜″.

10 WATT DIVIDOHMS

Ohmite No.	Ohms	Net Each	Ohmite No.	Ohms	Net Each	Ohmite No.	Ohms	Net Each
1001	1	88c	1015	250	88c	1029	3000	92c
1002	2	88c	1016	300	88c	1030	3500	92c
1003	3	88c	1017	350	88c	1031	4000	92c
1004	5	88c	1018	400	88c	1032	4500	92c
1005	7.5	88c	1019	500	88c	1033	5000	92c
1006	10	88c	1020	600	88c	1034	6000	98c
1007	15	88c	1021	750	88c	1035	7000	98c
1008	20	88c	1022	800	88c	1036	7500	98c
1009	25	88c	1023	1000	88c	1037	8000	98c
1010	50	88c	1024	1250	92c	1038	8500	98c
1011	75	88c	1025	1500	92c	1039	9000	98c
1012	100	88c	1026	2000	92c	1040	10M	98c
1013	150	88c	1027	2250	92c	......	......	....
1014	200	88c	1028	2500	92c	......	......	....

25 WATT DIVIDOHMS AND FIXED RESISTORS

Ohms	Dividohm		Fixed		Ohms	Dividohm		Fixed	
	No.	Net	No.	Net		No.	Net	No.	Net
1	0360	$1.12	0200J	$0.58	2500	0378	$1.13	0208	$0.62
2	0360B	1.12	0220K	.58	3000	0379	1.13	0209	.62
3	0361	1.12	0200L	.58	3500	0380	1.13	0210	.62
4	......	......	0200N	.58	4000	0381	1.13	0211	.62
5	0362	1.12	0200A	.58	4500	0381B	1.13	......	......
7.5	0362B	1.12	......	......	5000	0382	1.13	0212	.62
10	0363	1.12	0200B	.58	6000	0383	1.22	0213	.68
15	0364	1.12	0200R	.58	7000	0383B	1.22	......	......
20	0364B	1.12	......	......	7200	0383C	1.22	......	......
25	0365	1.12	0200C	.58	7500	0384	1.22	0214	.68
50	0366	1.12	0200D	.58	8000	0384B	1.22	......	......
75	0367	1.12	0200E	.58	9000	0384C	1.22	......	......
100	0368	1.12	0200F	.58	10M	0385	1.22	0215	.68
150	0369	1.12	0200G	.58	12M	0386	1.25	0216	.71
200	0370	1.12	0200H	.58	15M	0387	1.25	0217	.71
250	0371	1.12	0201	.58	20M	0388	1.25	0218	.71
300	0371B	1.12	......	......	25M	0389	1.37	0219	.82
400	0371C	1.12	......	......	30M	......	......	0220	.82
500	0372	1.12	0202	.58	35M	......	......	0221	.82
750	0373	1.12	0203	.58	40M	......	......	0222	.82
800	0374	1.12	0204	.58	50M	......	......	0224	.94
1000	0375	1.12	0205	.58	60M	......	......	0225	.94
1250	0375B	1.13	......	......	70M	......	......	0226	1.10
1500	0376	1.13	0206	.62	80M	......	......	0227	1.10
2000	0377	1.13	0207	.62	100M	......	......	0229	1.27
2250	0377B	1.13	......	......	......	......	......	......	......

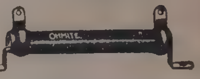
50 WATT DIVIDOHMS AND FIXED RESISTORS

Ohms	Dividohm		Fixed		Ohms	Dividohm		Fixed	
	No.	Net	No.	Net		No.	Net	No.	Net
1	0560A	$1.80	0400J	$1.35	4500	0577B	$1.48	......	......
2	0560B	1.42	0400K	.98	5000	0578	1.48	0411	$1.05
3	0560C	1.42	0400L	.98	6000	0578B	1.58	......	......
4	0560D	1.42	0400N	.98	7000	0578C	1.58	......	......
5	0560	1.42	0400A	.98	7200	0578D	1.58	......	......
10	0561	1.42	0400B	.98	7500	0579	1.58	0412	1.15
25	0562	1.42	0400C	.98	8000	0580	1.58	0413	1.15
50	0563	1.42	0400D	.98	9000	0580B	1.58	......	......
75	0564	1.42	0400E	.98	10M	0581	1.58	0414	1.15
100	0565	1.42	0400F	.98	12M	0582	1.70	0415	1.25
150	0566	1.42	0400G	.98	15M	0583	1.70	0416	1.25
200	0567	1.42	0400H	.98	20M	0584	1.70	0417	1.25
250	0568	1.42	0401	.98	25M	0585	1.85	0418	1.40
300	0568B	1.42	......	......	30M	0586	1.85	......	......
400	0568C	1.42	......	......	35M	......	......	0419	1.40
500	0569	1.42	0402	.98	40M	0587	1.85	......	......
750	0570	1.42	0403	.98	50M	0588	1.98	0420	1.54
800	0571	1.42	0404	.98	60M	0589	1.98	......	......
1000	0572	1.42	0405	.98	75M	......	......	0421	1.75
1250	0572B	1.48	......	......	80M	0590	2.20	......	......
1500	0573	1.48	0406	1.05	100M	0591	2.35	0422	1.92
2000	0574	1.48	0407	1.05	125M	......	......	0423	2.02
2250	0574B	1.48	......	......	150M	......	......	0424	2.10
2500	0575	1.48	0408	1.05	175M	......	......	0425	2.18
3000	0576	1.48	0409	1.05	200M	......	......	0426	2.27
3500	0576B	1.48	......	......	225M	......	......	0427	2.53
4000	0577	1.48	0410	1.05	250M	......	......	0428	2.53

ADJUSTABLE LUGS, SILVER CONTACT BUTTONS

Core Diam. Inches	Screwdriver Type		Bakelite Knob Type	
	Ohmite No.	Net Each	Ohmite No.	Net Each
5/16	2161	23c	....	....
9/16	2164	23c	2165	28c
¾	2166	28c	2167	38c
1⅛	2170	28c	2171	38c

VITREOUS ENAMELED FIXED RESISTORS



Lug type, wire-wound or ceramic cores Wattage ratings are for use in free air. **25 Watt Size**—For resistance values to 10,000 ohms. Core: 2″ x 9/16″. With No. 9 brackets. Mounting centers, 2¾″. **50 Watt Size**—For resistance values up to 15,000 ohms. Core: 4″ x 9/16″. With No. 9 brackets. Mounting centers, 4¾″. **100 Watt Size**—For resistance values to 20,000 ohms. Core: 6½″ x ¾″. With No. 12 brackets. Mounting centers, 7⅜″. **160 Watt Size**—For resistance values to 25,000 ohms. Core: 8½″ x 1⅛″. With No. 18 brackets. Mounting centers, 9⅜″. **200 Watt Size**—For resistance values to 30,000 ohms. Core: 10½″ x 1⅛″. Mounting centers, 11⅜″.

75 WATT DIVIDOHMS

Ohmite No.	Ohms	Net Each	Ohmite No.	Ohms	Net Each	Ohmite No.	Ohms	Net Each
0769A	1	$2.12	0777B	800	$1.65	0784B	8000	$1.80
0769B	2	2.12	0778	1000	1.65	0784C	9000	1.80
0769C	3	1.65	0778B	1250	1.70	0785	10M	1.80
0769D	4	1.65	0779	1500	1.70	0785B	12M	1.92
0769	5	1.65	0780	2000	1.70	0786	15M	1.92
0770	10	1.65	0780B	2250	1.70	0787	20M	1.92
0771	15	1.65	0781	2500	1.70	0788	25M	2.12
0772	25	1.65	0781B	3000	1.70	0789	30M	2.12
0773	50	1.65	0782	3500	1.70	0790	35M	2.12
0774	100	1.65	0782B	4000	1.70	0791	40M	2.12
0774B	200	1.65	0782C	4500	1.70	0792	45M	2.17
0775	250	1.65	0783	5000	1.70	0793	50M	2.17
0775B	300	1.65	0783B	6000	1.80	0794	60M	2.17
0775C	400	1.65	0783C	7000	1.80	0795	80M	2.38
0776	500	1.65	0783D	7200	1.80	0796	100M	2.60
0777	750	1.65	0784	7500	1.80	......	....	.

100 WATT DIVIDOHMS AND FIXED RESISTORS

Ohms	Dividohm		Fixed		Ohms	Dividohm		Fixed	
	No.	Net	No.	Net		No.	Net	No.	Net
1	0956A	$2.72	0600C	$2.02	1500	0962B	$2.20	0610	$1.52
2	0956B	2.72	0600D	2.02	2000	......	......	0611	1.52
3	0956C	2.72	0600E	2.02	2500	0963	2.20	0612	1.52
4	0956D	2.15	0600F	1.45	3000	......	......	0613	1.52
5	0956	2.15	0600A	1.45	5000	0964	2.20	0614	1.52
10	0957	2.15	0600B	1.45	7500	......	......	0615	1.62
25	0958	2.15	0601	1.45	10M	0965	2.32	0616	1.62
50	0959	2.15	0602	1.45	15M	0966	2.47	0617	1.78
75	......	......	0603	1.45	20M	0967	2.47	0618	1.78
100	0960	2.15	0604	1.45	25M	0968	2.62	0619	1.92
125	......	......	0604B	1.45	30M	0969	2.62	0620	1.92
150	......	......	0605	1.45	40M	0970	2.62	0621	1.92
250	0960B	2.15	0606	1.45	50M	0971	2.72	0622	2.02
500	0961	2.15	0607	1.45	60M	......	......	0623	2.02
750	......	......	0608	1.45	75M	0972	2.85	0624	2.12
1000	0962	2.15	0609	1.45	100M	0973	2.97	0625	2.28

160 WATT DIVIDOHMS AND FIXED RESISTORS

Ohms	Dividohm		Fixed		Ohms	Dividohm		Fixed	
	No.	Net	No.	Net		No.	Net	No.	Net
1	1156A	$3.20	0700C	$2.50	1500	1162B	$2.51	0710	$1.82
2	1156B	3.20	0700D	2.50	2000	......	......	0711	1.82
3	1156C	3.20	0700E	2.50	2500	1163	2.51	0712	1.82
4	1156D	3.20	0700F	2.50	3000	......	......	0713	1.82
5	1156	3.20	0700A	2.50	5000	1164	2.51	0714	1.82
10	1157	2.48	0700B	1.79	7500	......	......	0715	1.98
25	1158	2.48	0701	1.79	10M	1165	2.66	0716	1.98
50	1159	2.48	0702	1.79	15M	1166	2.81	0717	2.12
75	......	......	0703	1.79	20M	1167	2.81	0718	2.12
100	1160	2.48	0704	1.79	25M	1168	2.88	0719	2.18
125	......	......	0704B	1.79	30M	1169	2.88	0720	2.18
150	......	......	0705	1.79	40M	1170	2.88	0721	2.18
250	1160B	2.48	0706	1.79	50M	1171	2.96	0722	2.26
500	1161	2.48	0707	1.79	60M	......	......	0723	2.26
750	......	......	0708	1.79	75M	1172	3.10	0724	2.42
1000	1162	2.48	0709	1.79	100M	1173	3.26	0725	2.56

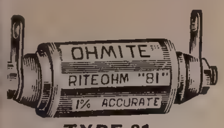
200 WATT DIVIDOHMS AND FIXED RESISTORS

Ohms	Dividohm		Fixed		Ohms	Dividohm		Fixed	
	No.	Net	No.	Net		No.	Net	No.	Net
1	1356A	$3.40	0900C	$2.72	2000	......	......	0911	$1.98
2	1356B	3.40	0900D	2.72	2500	1363	$2.67	0912	1.98
3	1356C	3.40	0900E	2.72	3000	......	......	0913	1.98
4	1356D	3.40	0900F	2.72	5000	1364	2.67	0914	1.98
5	1356	3.40	0900A	2.72	7500	......	......	0915	2.12
10	1357	2.62	0900B	1.93	10M	1365	2.82	0916	2.12
25	1358	2.62	0901	1.93	15M	1366	2.95	0917	2.26
50	1359	2.62	0902	1.93	20M	1367	2.95	0918	2.26
75	......	......	0903	1.93	25M	1368	3.02	0919	2.34
100	1360	2.62	0904	1.93	30M	1369	3.02	0920	2.34
150	......	......	0905	1.93	40M	1370	3.02	0921	2.34
250	1360B	2.62	0906	1.93	50M	1371	3.10	0922	2.42
500	1361	2.62	0907	1.93	60M	......	......	0923	2.42
750	......	......	0908	1.93	75M	1372	3.25	0924	2.55
1000	1362	2.62	0909	1.93	100M	1373	3.40	0925	2.72
1500	1362B	2.67	0910	1.98	......	......	......	......	......

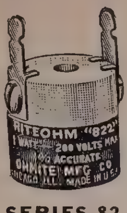
STANDARD ADJUSTABLE LUGS

Core Diam. Inches	Screwdriver Type		Bakelite Knob Type	
	Ohmite No.	Net Each	Ohmite No.	Net Each
5/16	1058	15c	....	....
9/16	0358	15c	0359	22c
¾	1958	25c	1959	28c
1⅛	2158	25c	2159	28c

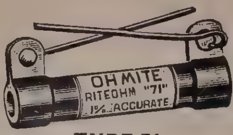
Ohmite Riteohm Precision Resistors



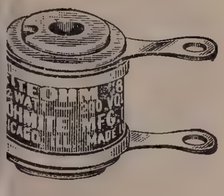
TYPE 81



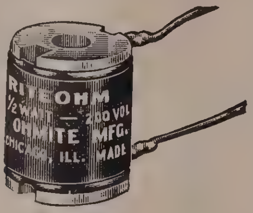
SERIES 82



TYPE 71



SERIES 84



SERIES 83

TYPE 71—1-WATT VITREOUS ENAMELED PRECISION RESISTORS

% Tolerance. Diameter ⅜", Length 1¾". 2 No. 18 wire ads 1½" long. Wound in a single layer on a ceramic tube.

Ohms	Max. Voltage	Net Each	Ohms	Max. Voltage	Net Each
500	22.40	94c	12,000	110	$1.18
600	24.50		12,500	112	
700	26.50		13,500	116	
750	27.30		14,300	120	
800	28.30		15,000	122	
900	30.00		16,000	126	1.40
1,000	31.60		17,500	132	
1,100	33.20		18,000	134	
1,200	34.60		20,000	141	
1,250	35.40		22,500	150	
1,500	38.70		25,000	158	
1,750	41.80		*30,000	173	
2,000	44.70		*35,000	187	
2,250	47.50		*40,000	200	
2,500	50.00		*45,000	212	
3,000	54.80	$1.01	*50,000	224	1.63
3,500	59.20		†55,000	234	
4,000	63.20		†60,000	245	
4,500	67.10		†65,000	255	
5,000	70.70		†70,000	265	
6,000	77.50		†75,000	274	1.88
7,000	83.70		†80,000	283	
7,500	86 60		†85,000	292	
8.000	89.40		†90,000	300	
8,500	92.20		†95,000	308	
10,000	100		†100,000	316	
11,000	105				

These units are covered with low temperature enamel.
These units are ½" dia. x 2" long, covered with low temperature namel.

TYPE 81—1-WATT NON-INDUCTIVE PRECISION RESISTORS

-Pie, 1% Tolerance. Diameter 9/16", Length 1¾" for 6-Pie, /16" for 8-Pie. Two soldering lugs extend ½" above core enter.

Ohms	Max. Voltage	Net Each	Ohms	Max. Voltage	Net Each
†0.1	.316	$1.09	22,500	150	$1.50
†0.5	.707		25,000	158	
†1	1.00		30,000	173	
10	3.16		40,000	200	
25	5.00		50,000	224	
50	7.07				
100	10.00		60,000	245	$1.78
200	14.10		75,000	274	1.78
250	15.80		100,000	316	1.97
300	17.30		125,000	354	2.23
500	22.40		150,000	387	2.48
1,000	31.60		175,000	418	2.48
1,250	35.40		200,000	447	2.48
1,500	38.70		225,000	474	2.72
2,000	44 70		250,000	500	2.72
2,500	50.00	1.18	300,000	547	2.93
4,000	63.20		400,000	600	2.93
5,000	70.70		500,000	600	3.41
7,500	86 60		600,000	600	3.98
10.000	100		*750,000	866	4.22
12,500	112	$1.27	*900,000	948	4.43
15,000	122	1.27	*1,000,000	1000	4.69
17,500	132	1.50	*1,500,000	1000	7.02
20,000	141	1.50	*2,000,000	1000	9.37

No Soldering Lugs. *These Units are 8-Pie-Wound.

SERIES 82—1-WATT NON-INDUCTIVE PRECISION RESISTORS

1% Tolerance. Type 822 2-Pie. Diameter 11/16", Length ¾". Two soldering lugs extend ⅜" from base of unit. Mounting hole through center for No. 6 screw. Other types in this series are 824 4-Pie and 826 6-Pie. These are available on special order, except the 5 listed below.

Ohms	Max. Voltage	Net Each	Ohms	Max. Voltage	Net Each
0.1	.316	$1.09	22,500	150	$1.50
0.5	.707		25,000	158	
1	1.00		30,000	173	
10	3.16		40,000	200	
25	5.00		50,000	200	
50	7.07		60,000	200	$1.78
100	10.00		75,000	200	1.78
200	14.10		100,000	200	1.97
250	15.80		125,000	200	2.23
300	17.30		150,000	200	2.48
500	22.40		175,000	200	2.48
1,000	31.60		200,000	200	2.48
1,500	38.70		225,000	200	2.72
2,000	44.70		250,000	200	2.72
2,500	50.00	1.18	300,000	200	2.93
4,000	63.20		400,000	200	2.93
5,000	70.70		500,000*	400	3.41
7,500	86.60		600,000*	400	3.98
10,000	100		750,000*	400	4.22
12,500	112	$1.27	900,000†	600	4.43
15,000	122	1.27	1,000,000†	600	4.69
20,000	141	1.50			

*Type 824, 4 Pie, length 1 1/16". †Type 826, 6 Pie, length 1⅜".

SERIES 83—½ AND 1-WATT NON-INDUCTIVE PRECISION RESISTORS

1% Tolerance. Type 832-S 2 Pie, ½ Watt. Diameter ½", Length 7/16". Provided with No. 20 wire leads 1½" long. Mounting hole through center for No. 6 screw. Other types in this series are 832, 2 Pie, ½ watt and 834, 4 Pie, 1 watt. These are available on special order, except the 9 listed below.

Ohms	Max. Voltage	Net Each	Ohms	Max. Voltage	Net Each
1	.707	80c	25,000	112	$1.27
10	2.24		30,000	122	
25	3.54		40,000	141	
50	5.00		50,000	158	
100	7.07		60,000	173	$1.50
200	10.00		75,000	194	1.50
250	11.20		100,000	200	1.73
300	12.20		125,000	200	1.97
500	15.80		150,000	200	2.20
1,000	22.40	83c	175,000	200	2.20
1,500	27.40		200,000	200	2.20
2,000	31.60		225,000*	200	2.44
2,500	35.40		250,000*	200	2.44
4,000	44.70	94c	300,000*	200	2.66
5,000	50.00		400,000*	200	2.80
7,500	61.20		500,000†	400	3.19
10,000	70.70		600,000†	400	3.98
12,500	79.00	$1.01	750,000†	400	4.22
15,000	86.60	1.01	900,000†	400	4.43
20,000	100	1.27	1,000,000†	400	4.92
22,500	106	1.27			

*Type 832, 2 Pie, length ⅝". †Type 834, 4 Pie, length 1".

SERIES 84—½ AND 1-WATT NON-INDUCTIVE PRECISION RESISTORS

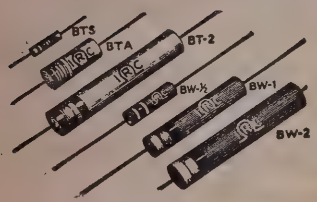
1% Tolerance. Type 842-A 2 Pie, ½ Watt. Diameter 9/16", Length 9/16". Two soldering lugs extend 21/32" above core center. Mounting hole through center for No. 6 screw. Other types in this series are 844-A, 4 Pie, 1-Watt and 844-B, 4 Pie, 1-Watt. These are available on special order, except the 10 listed below.

Ohms	Max. Voltage	Net Each	Ohms	Max. Voltage	Net Each
0.1*	.316	80c	22,500	106	$1.27
0.5	.500		25,000	112	
1	.707		30,000	122	
10	2.24		40,000	141	
25	3.54		50,000	158	
50	5.00		60,000	173	$1.50
100	7.07		75,000	194	1.50
200	10.00		100,000	200	1.73
250	11.20		125,000	200	1.97
300	12.20		150,000	200	2.20
500	15.80		175,000	200	2.20
1,000	22.40	83c	200,000	200	2.20
1,500	27.40		225,000*	400	2.44
2,000	31.60		250,000*	400	2.44
2,500	35.40		300,000*	400	2.66
4,000	44.70	94c	400,000*	400	2.80
5,000	50.00		500,000†	400	3.19
7,500	61.20		600,000†	400	3.98
10,000	70.70		750,000†	400	4.22
12,500	79.00	$1.01	900,000†	400	4.43
15,000	86.60	1.01	1,000,000†	400	4.92
20,000	100	1.27	1,500,000†	400	7.02

*Type 844-A, 4 Pie, Length ⅞". †Type 844-B, 4 Pie, Length 1 1/16".

IRC *Quality Resistors*

IRC INSULATED CARBON AND WIREWOUND RESISTORS



CARBON RESISTORS

IRC Type	Watt	Range of Values	Size, Inches	5% Tol. Net Each	5% Tol. Lots of 100 Net Each	10% Tol. Net Each	10% Tol. Lots of 100 Net Each
BTR	¼	82 ohms-22 megs	13/32 x 3/32	20c	12c	10c	6c
BTS	½	82 ohms-22 megs	13/32 x ⅛	20c	12c	10c	6c
BTA	1	100 ohms-22 megs	23/32 x ¼	30c	18c	15c	9c
BTB	2	330 ohms-22 megs	1¼ x ¼	40c	24c	20c	12c

WIRE WOUND RESISTORS

IRC Type	Watt	Range of Values	Size, Inches	5% Tol. Net Each	5% Tol. Lots of 100 Net Each	10% Tol. Net Each	10% Tol. Lots of 100 Net Each
BW-½	½	0.27-820 ohms	⅝ x 3/16	23c	14c	12c	7c
BW-1	1	0.47-4700 ohms	1¼ x ¼	35c	21c	18c	11c
BW-2	2	1.0-8200 ohms	1¾ x 21/64	45c	27c	23c	14c

10% tolerance available only in values printed in bold type: 5% available in all values.

Type BT insulated carbon resistors are completely insulated with bakelite and unexcelled for stability, low noise level, low voltage coefficient and mechanical strength. Insulation breakdown of Type BTS is 750 volts to ground; all other Type BT's 1000 volts. Standard tolerance ±10%. ±5% at higher cost.

Type BW insulated wire wound resistors are identical with Type BT except that resistance element is close wound around special insulated core. Tolerance ±10%. ±5% available at higher cost.

RESISTANCE CHART

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Megs	Megs
0.24	1.6	11	75	510	3,600	24K	160K	1.0	6.8
0.27	1.8	12	82	560	3,900	27K	180K	1.1	7.5
0.30	2.0	13	91	620	4,300	30K	200K	1.2	8.2
0.30	2.2	15	100	680	4,700	33K	220K	1.3	9.1
0.36	2.4	16	110	750	5,100	36K	240K	1.5	10
0.39	2.7	18	120	820	5,600	39K	270K	1.6	11
0.43	3.0	20	130	910	6,200	43K	300K	1.8	12
0.47	3.3	22	150	1,000	6,800	47K	330K	2.0	13
0.61	3.6	24	160	1,100	7,500	51K	360K	2.2	15
0.56	3.9	27	180	1,200	8,200	56K	390K	2.4	16
0.62	4.3	30	200	1,300	9,100	62K	430K	2.7	18
0.68	4.7	33	220	1,500	10K	68K	470K	3.0	20
0.75	5.1	36	240	1,600	11K	75K	510K	3.3	22
0.82	5.6	39	270	1,800	12K	82K	560K	3.6	....
0.91	6.2	43	300	2,000	13K	91K	620K	3.9	....
1.0	6.8	47	330	2,200	15K	100K	680K	4.3	....
1.1	7.5	51	360	2,400	16K	110K	750K	4.7	....
1.2	8.2	56	390	2,700	18K	120K	820K	5.1	....
1.3	9.1	62	430	3,000	20K	130K	910K	5.6	....
1.5	10	68	470	3,300	22K	150K	....	6.2	....

ALL-METAL RESIST-O-CABINET

Again available in large steel cabinets, 3 new IRC RESIST-O-CABINETS provide the perfect way to buy and stock resistors. Four drawer cabinets have 28 range identified compartments—a neat, efficient stocking arrangement that also saves time in unnecessary buying trips. Blue, yellow and silver finish adds attractiveness to shop. Drawers have non-spill feature, and cabinets are designed for stacking. Size 5⅜" x 5 15/16" x 10⅞". No extra charge is made for cabinet when purchased with any of the 3 RESIST-O-CABINETS detailed on this page.

RESIST-O-CABINETS are available in three combinations. Assortment No. 5, listed in adjoining column; Assortment No. 4, consisting of 100 BW½ and BTS½ one-half watt resistors; Assortment No. 6, 91 insulated resistors and close tolerance precistors.

COMBINATION RESIST-O-CABINET

Assortment No. 6—91 Insulated Resistors and Close Tolerance Precistors. Net Each.............. $\$14^{05}$

Range	½ Watt	1 Watt	2 Watt	DCF
47 ohms	1	1	1	—
100 ohms	1	1	1	—
150 ohms	1	1	—	—
220 ohms	1	1	—	—
270 ohms	1	1	—	—
470 ohms	1*	1	1	—
1,000 ohms	3*	2*	—	1
1,500 ohms	1	1	—	—
2,200 ohms	1*	1	—	—
2,700 ohms	1*	1	—	—
3,300 ohms	1*	1*	—	—
4,700 ohms	2*	1*	1	—
10,000 ohms	2*	2*	1*	1
15,000 ohms	1	1*	—	—
22,000 ohms	1*	1*	1*	—
27,000 ohms	1*	2*	—	—
33,000 ohms	1*	1*	—	—
39,000 ohms	1	1*	—	—
47,000 ohms	3*	2*	1*	—
68,000 ohms	1*	1*	—	—
0.1 meg	3*	2*	—	1
0.15 meg	1	1	—	—
0.22 meg	2*	1	—	—
0.27 meg	3*	1	—	—
0.47 meg	3*	2	—	—
1.0 meg	3*	2*	—	1
2.2 meg	2*	1	—	—
4.7 meg	1*	1	—	—
5.0 meg	—	—	—	1

*Popular television ranges. DCF—PRECISTOR.

1 WATT RESIST-O-CABINET

Assortment No. 5—83 BW-1 and BTA 1 Watt Resistors. Net Each.............................. $\$12^{45}$

Quantity	Range	Quantity	Range
2	47 ohms	3	22,000 ohms*
2	100 ohms	5	27,000 ohms*
2	150 ohms	2	33,000 ohms*
2	220 ohms	2	39,000 ohms*
2	270 ohms	5	47,000 ohms*
2	470 ohms	2	68,000 ohms*
5	1,000 ohms*	5	0.1 meg*
2	1,500 ohms	2	0.15 meg
3	2,200 ohms	2	0.22 meg
2	2,700 ohms	5	0.27 meg
2	3,300 ohms*	5	0.47 meg
3	4,700 ohms*	5	1.0 meg*
5	10,000 ohms*	2	2.2 meg
2	15,000 ohms*	2	4.7 meg

*1 watt values most widely found in television.

½ WATT RESIST-O-CABINET

Assortment No. 4—100 BW ½ and BTS ½ Watt Resistors. Net Each.............................. $\$10^{00}$

Quantity	Range	Quantity	Range
2	47 ohms	3	33,000 ohms*
3	100 ohms	6	47,000 ohms*
2	220 ohms	2	56,000 ohms*
2	270 ohms	2	68,000 ohms*
3	470 ohms*	6	0.1 meg*
6	1,000 ohms*	5	0.22 meg*
2	1,500 ohms	6	0.27 meg*
2	2,200 ohms*	3	0.33 meg*
2	2,700 ohms*	6	0.47 meg*
3	3,300 ohms*	6	1.0 meg*
5	4,700 ohms*	5	2.2 meg*
5	10,000 ohms*	2	3.3 meg
3	22,000 ohms*	3	4.7 meg*
3	27,000 ohms*	2	10.0 meg

*½ watt values most widely found in television.

NEW RESIST-O-KITS

Flat, pocket-size metal kit of ½ or 1 watt BT Insulated Composition Resistors is ideal for service calls or small bench stocks. All-steel and attractively lithographed in blue and yellow. RESIST-O-KIT measures 11/16" x 3⅛" x 6⅝". Ten compartments prevent ranges from mixing, and lid snaps securely shut. This handy kit is furnished at no extra charge with either of two inexpensive assortments described below.

Resist-O-Kit Assortment No. 7—45 BTS ½ Watt Resistors. Net Each................................ $\$4^{50}$

Quantity	Resistance Range	Quantity	Resistance Range
4	1,000 ohms*	3	0.22 meg*
3	4,700 ohms*	5	0.27 meg*
4	10,000 ohms*	6	0.47 meg*
5	47,000 ohms*	5	1.0 meg*
6	0.1 meg*	4	2.2 meg*

*Widely found in television.

Resist-O-Kit Assortment No. 8—30 BTA 1 Watt Resistors. Net Each................................ $\$4^{50}$

Quantity	Resistance Range	Quantity	Resistance Range
4	1,000 ohms*	4	47,000 ohms*
2	2,200 ohms	4	0.1 meg*
2	4,700 ohms*	2	0.27 meg
3	10,000 ohms*	4	0.47 meg
2	27,000 ohms*	3	1.0 meg*

*Widely found in television.

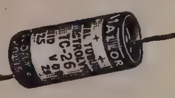
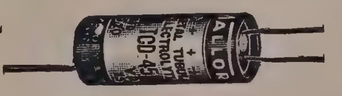
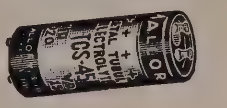
Mallory Tubular Capacitors

PLASCAP TUBULAR CAPACITORS

Triple-Sealed plastic. Unique impregnant results in stable capacity, low power factor and high insulation resistance over a wide range of temperatures. Rated 85° C.

	400 Volts, D.C.			600 Volts, D.C.			1600 Volts, D.C.		
Cap. Mfd.	Mall. No.	Size D. x L.	Net Each	Mall. No.	Size D. x L.	Net Each	Mall. No.	Size D. x L.	Net Each
001	....	....	.....	PT621	5/16x1	15c	PT1621	3/8x1	33c
002	....	....	.....	PT622	5/16x1	15c	PT1622	3/8x1	33c
0022	....	....	.....	PT6222	5/16x1	15c	PT16222	3/8x1 1/4	33c
003	....	....	.....	PT623	5/16x1	15c	PT1623	3/8x1 1/4	33c
0033	....	....	.....	PT6233	5/16x1	15c	PT16233	3/8x1 1/4	33c
004	....	....	.....	PT624	3/8x1	15c	PT1624	3/8x1 1/4	33c
0047	....	....	.....	PT6247	3/8x1	15c	PT16247	3/8x1 1/4	33c
005	....	....	.....	PT625	3/8x1	15c	PT1625	3/8x1 1/4	33c
006	....	....	.....	PT626	3/8x1	15c	PT1626	7/16x1 1/4	33c
007	....	....	.....	....	....	.....	PT1627	7/16x1 1/4	33c
0075	....	....	.....	....	....	.....	PT16275	7/16x1 1/4	33c
008	....	....	.....	....	....	.....	PT1628	7/16x1 1/4	36c
01	PT411	3/8x1	15c	PT611	3/8x1 1/4	18c	PT1611	1/2x1 1/4	36c
015	....	....	.....	....	....	.....	PT16115	1/2x1 1/2	36c
02	PT412	3/8x1 1/4	15c	PT612	7/16x1 1/4	18c	PT1612	1/2x1 1/2	36c
022	PT4122	3/8x1 1/4	18c	PT6122	7/16x1 1/4	18c	PT16122	5/8x1 7/8	36c
03	PT413	7/16x1 1/4	18c	PT613	1/2x1 1/4	21c	PT1613	5/8x1 7/8	36c
033	PT4133	7/16x1 1/4	18c	PT6133	1/2x1 1/4	21c	....	....	.....
04	....	....	.....	PT614	1/2x1 1/2	21c	PT1614	5/8x1 7/8	42c
047	PT4147	1/2x1 1/4	18c	PT6147	1/2x1 1/2	24c	....	....	.....
05	PT415	1/2x1 1/4	18c	PT615	1/2x1 1/2	24c	PT1615	5/8x1 7/8	42c
06	....	....	.....	PT616	1/2x1 1/2	24c	....	....	.....
1	PT401	1/2x1 1/2	21c	PT601	5/8x1 7/8	27c	....	....	.....
15	PT4015	5/8x1 7/8	24c	....	....	.....	....	....	.....
2	PT402	5/8x1 7/8	27c	PT602	3/4x2 1/4	42c	....	....	.....
22	PT4022	5/8x1 7/8	27c	PT6022	3/4x2 1/4	42c	....	....	.....
25	PT4025	5/8x1 7/8	27c	PT6025	3/4x2 1/4	33c	....	....	.....
47	PT4047	3/4x2 1/4	36c	PT6047	7/8x2 11/16	48c	....	....	.....
5	PT405	3/4x2 1/4	36c	PT605	13/16x2 11/16	48c	....	....	.....
.0	PT41	13/16x2 11/16	75c	PT61	1x3	75c	....	....	.....
015-.015	....	....	.....	....	....	.....	PTD16115	5/8x1 7/8	48c

TYPES TC-TCD-TCS AND TCT TUBULAR DRY ELECTROLYTICS

esigned for use where small size and long life are desirable. All units except * are satis-actory for 85° C. operation. Encased in hermetically sealed aluminum tubes with external nsulating sleeve. **Type TC** are single section units with 3″ bare solid copper tinned leads. **ype TCD** are dual common negative units with 3″ bare solid copper tinned leads. **Type CS** are dual separate section units supplied with soldering lugs and TH clips. **Type TCT** re Triple Common Negative.

TYPE TC SINGLE SECTION

Mall. No.	Cap. Mfd.	D.C. W.V.	Size, In. Dia. x Lg.	Net Each
310	1000	3	15/16 x 1 3/4	$1.02
605	500	6	13/16 x 1 3/4	.93
610	1000	6	15/16 x 2	1.14
1502	200	15	13/16 x 1 1/2	.84
1505	500	15	15/16 x 2	1.05
22	10	25	9/16 x 1 1/4	.60
26	25	25	9/16 x 1 1/4	.60
29	50	25	11/16 x 1 1/2	.66
2501	100	25	11/16 x 1 3/4	.81
2505	500	25	1 1/16 x 2 7/8	1.38
302	2	50	9/16 x 1 1/4	.54
30	5	50	9/16 x 1 1/4	.60
31	1	50	9/16 x 1 1/4	.54
32	10	50	9/16 x 1 1/4	.60
36	25	50	11/16 x 1 1/4	.63
39	50	50	13/16 x 1 1/4	.72
3501	100	50	13/16 x 2	.84
40	5	150	9/16 x 1 1/4	.60
41	8	150	11/16 x 1 1/4	.63
42	10	150	11/16 x 1 1/4	.63
43	12	150	11/16 x 1 1/2	.66
44	16	150	11/16 x 1 1/2	.69
45	20	150	13/16 x 1 1/2	.72
47	30	150	13/16 x 1 1/2	.78
48	40	150	15/16 x 1 3/4	.81
49	50	150	15/16 x 1 3/4	.84
492	80	150	15/16 x 2 1/4	.96
495	150	150	1 1/16 x 2 7/8	1.14
50X	5	250	11/16 x 1 1/4	.63
51	8	250	11/16 x 1 3/4	.69
52	10	250	11/16 x 1 3/4	.72
53	12	250	13/16 x 1 3/4	.75
54	16	250	13/16 x 1 3/4	.78
55	20	250	13/16 x 1 3/4	.81
58	40	250	1 1/16 x 1 3/4	.93
59	50	250	1 1/16 x 2	1.02
60	5	350	11/16 x 1 3/4	.63
61	8	350	13/16 x 1 3/4	.72
62	10	350	13/16 x 1 3/4	.75
63	12	350	15/16 x 1 3/4	.78
64	16	350	15/16 x 1 3/4	.84
65	20	350	15/16 x 1 3/4	.87
68	60	350	1 1/16 x 2 7/8	1.17
70	5	450	11/16 x 1 3/4	.72
71	8	450	13/16 x 1 3/4	.75
72	10	450	13/16 x 1 3/4	.78
73	12	450	13/16 x 1 3/4	.81
74	16	450	15/16 x 1 3/4	.84
75	20	450	1 1/16 x 1 3/4	$0.93
77	30	450	1 1/16 x 2 1/4	1.02
78	40	450	1 1/16 x 2 7/8	1.08
*81	10	500	15/16 x 1 3/4	.81
82	10	500	1 1/16 x 2 15/16	1.62
*83	20	500	1 1/16 x 2 15/16	.96
*84	30	500	1 1/16 x 2 1/4	1.05
92	10	600	1 1/16 x 2 15/16	1.77
50025	250	50	1 1/16 x 2 7/8	1.05
308	.5z @ 15750c	3 V NP	1 1/16 x 2	1.32
420	1.5z @ 60 cy.	4 V DC	1 1/16 x 2 7/8	2.10
421	1.52 @ 120 cy.	6 V DC	1 1/16 x 2	1.80

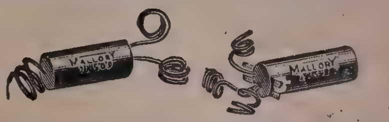
TCD DUAL COMMON NEGATIVE

Mall. No.	Cap. Mfd.	D.C. W.V.	Size, In. Dia. x Lg.	Net Each
26	25-25	25	13/16 x 1 1/4	$0.84
45	20-20	150	13/16 x 2	.99
47	30-30	150	15/16 x 2	1.08
48	40-40	150	1 1/16 x 2	1.11
485	40-20	150	1 1/16 x 2	1.05
49	50-50	150	1 1/16 x 3 1/16	1.26
497	50-30	150	1 1/16 x 2 1/4	1.17
498	80-50	150	1 1/16 x 2 1/4	1.41
52	10-10	250	15/16 x 2	.99
55	20-20	250	1 1/16 x 2	1.11
62	10-10	350	15/16 x 2	1.02
65	20-20	350	1 1/16 x 3 1/16	1.35
71	8-8	450	15/16 x 2	1.02
72	10-10	450	1 1/16 x 2	1.11
74	15-15	450	1 1/16 x 3 1/16	1.32
75	20-20	450	1 1/16 x 3 1/16	1.50
78	40-40	450	1 1/16 x 4	2.04

TCS DUAL SEPARATE SECTION

Mall. No.	Cap. Mfd.	D.C. W.V.	Size, In. Dia. x Lg.	Net Each
44	15-15	150	13/16 x 2 3/8	1.20
45	20-20	150	15/16 x 2 3/8	1.26
47	30-30	150	1 1/16 x 2 3/8	1.35
48	40-40	150	1 1/16 x 2 7/8	1.41
505	70-70	175	1 1/16 x 3 7/8	2.16
52	10-10	250	15/16 x 2 3/8	1.26
55	20-20	250	1 1/16 x 2 7/8	1.41
61	8-8	350	15/16 x 2 3/8	1.26
64	15-15	350	1 1/16 x 2 7/8	1.65
71	8-8	450	1 1/16 x 2 3/8	1.29
74	15-15	450	1 1/16 x 2 7/8	1.65
75	20-20	450	1 1/16 x 3 1/2	1.89

TYPES 2N-2S-3N-3S-4N-4S-ST-TN DRY ELECTROLYTIC CARDBOARD TUBULAR CAPACITORS



Filter and bypass units for above or below-chassis mounting where humidity conditions are not extreme. Cardboard tubes with extra inner seal and ample wax seal at ends. All types are supplied with 8″ flexible covered leads out one end except those marked (*), which have negative lead out opposite end. All except TN111 are supplied with adjustable horizontal mounting strap. All units marked (†) have special feet for vertical mounting. (#) Bared tinned leads out of both ends. Average shipping weight 4 oz.

SINGLE SECTION

Mallory No.	Cap. Mfd.	D.C. W.V.	Size Di. x Lg.	Net Each
ST595†	8	450	13/16x2 1/8	$0.75
ST597†	16	450	7/8x2 3/4	.84
ST598†	30	450	1x2 3/4	.93
ST599†	30	450	1x3 1/4	1.02
ST645	60	450	1 3/16x3 3/8	1.41
ST845	80	450	1 3/16x4 3/8	1.68

DUAL COMMON NEGATIVE

Mallory No.	Cap. Mfd.	D.C. W.V.	Size Di. x Lg.	Net Each
TN111#	10-10	25	5/8x1 3/4	.84
2N501	250-1000	10-6	1 1/16x2 5/8	1.68
2N509*	20-20	150	7/8x2 1/8	.99
2N513*	30-30	150	7/8x2 3/8	1.08
2N514*	40-20	150	7/8x2 1/2	1.05
2N511*	40-40	150	15/16x2 1/2	1.11
2N521†	50-50	150	1x2 7/8	1.26
2N516*	8-8	250	7/8x2 1/8	.96
2N518†	8-8	450	15/16x2 3/4	1.02
2N523	100-100	150-150	1 1/8x3 3/8	1.92
2N525	30-30	200-200	1x2 5/8	1.32
2N527	50-75	250-50	1 1/4x2 5/8	1.44
2N529	100-150	250-50	1 3/8x3 3/8	2.16
2N531	40-40	300-300	1 1/8x3 3/8	1.77
2N533	40-50	450-50	1 1/8x3 3/8	1.50
2N535	30-60	450-300	1 1/4x3 3/8	1.92

DUAL SEPARATE SECTIONS

Mallory No.	Cap. Mfd.	D.C. W.V.	Size Di. x Lg.	Net Each
2S556†	30-30	150	1x2 3/4	1.35
2S567†	8-8	450	1 1/8x2 3/4	1.29
2S569†	16-16	450	1 1/4x3 7/8	1.68

TRIPLE COMMON NEGATIVE

Mallory No.	Cap. Mfd.	D.C. W.V.	Size Di. x Lg.	Net Each
3N527*	20-20-20	150-150-25	15/16x2 1/4	1.23
3N533*	30-30-20	150-150-25	1x2 3/8	1.32
3N535	40-30-40	350-250-150	1 3/16x3 3/8	1.98
3N537	30-50-100	450-150-25	1 1/4x3 1/8	1.92
3N538	80-40-20	150	1x3 1/4	1.65
3N540	80-50-50	150	1 1/16x3 1/2	1.86
3N539	30-30-30	450-350-250	1 5/16x3 3/8	2.25
3N541	40-20-10	450	1 5/16x3 3/8	2.13
TN125*	20-10-10	150	7/8x2 3/8	1.20
TN129†	40-20-20	150	15/16x2 7/8	1.35

TRIPLE SEPARATE SECTION (1st sec.sep.)

Mallory No.	Cap. Mfd.	D.C. W.V.	Size Di. x Lg.	Net Each
3S579†	8-8-20	450-25	1 3/16x2 7/8	1.59
3S584†	8-8-8	450	1 3/16x2 7/8	1.71

QUAD COMMON NEGATIVE

Mallory No.	Cap. Mfd.	D.C. W.V.	Size Di. x Lg.	Net Each
4N723	10-10-10-150	450-450-450-50	1 3/16x3 3/8	2.16
4N727	10-10-10-10	450	1 1/8x3 3/8	1.95

QUAD SEPARATE SECTIONS (1st sec.sep.)

Mallory No.	Cap. Mfd.	D.C. W.V.	Size Di. x Lg.	Net Each
4S715†	16-16-10-10	150-25	1 1/8x2 5/8	1.95

TCT TRIPLE COMMON NEGATIVE

Mall. No.	Cap. Mfd.	D.C. W.V.	Size, In. Dia. x Lg.	Net Each
3107	50-30-20	150-150-25	1 1/16x2 1/4	1.41
3112	20-20-20	150	1 1/16x1 3/4	1.29
3113	30-30-30	150	1 1/16x2 1/4	1.41
3114	40-20-20	150	1 1/16x2 1/4	1.35
3115	40-40-40	150	1 1/16x2 7/8	1.47
3116	40-40-20	150	1 1/16x2 1/4	1.41

Mallory Electrolytic Capacitors

FP AND WP CAPACITORS

For top chassis mounting in filter and audio bypass circuits and TV applications. Extremely dependable under heavy ripple current and high surge voltage. All WP and FP capacitors are designed for high temperature (85°C) operation, except as noted in table. Single, dual, triple and quad section units encased in compact rubber sealed aluminum cases with self-contained mounting feature, **Type FP** is supplied with Fabricated Plate (metallized cotton gauze) anodes, **Type WP** with etched plate anodes. Special internal design provides low RF impedance and minimum coupling between sections. Case at negative potential. Supplied insulating washer may be used where negative ground is not wanted. For twist-prong mounting through chassis slots. Hardware listed in third column of this page may also be used.

FP-WP—SINGLES

Mallory No.	Cap. Mfd.	Wkg. V. DC	*	Net Each
WP510	.5Z/15750†	3V	B	$1.32
WP540	1.0Z/60†	3V	H	2.40
WP505	10Z/30†	3V	A	1.20
WP035	225	15	A	1.05
WP039	1000	15	C	1.53
WP041	2000	15	F	2.07
WP042	3000	15	H	2.10
WP052	40	25	A	.81
WP055	100	25	B	.96

Mallory No.	Cap. Mfd.	Wkg. V. DC	*	Net Each
WP057	500	25	C	1.53
WP059	1000	25	F	2.13
WP063	4	50	A	.75
WP065	500	50	F	1.59
WP068	1500	50	I	2.31
FP113	30	150	A	.93
FP115	50	150	B	.99
FP116	100	150	C	1.20
FP116.5	120	150	D	1.23
FP117	150	150	D	1.29
FP118	200	150	G	1.47
FP119	300	150	H	1.68

Mallory No.	Cap. Mfd.	Wkg. V. DC	*	Net Each
FP125	15	250	A	.93
FP128	80	300	D	1.53
FP129.1	100	300	D	2.10
FP131	150	300	H	2.10
FP135	30	350	B	1.14
FP137	50	350	C	1.26
FP137.2	60	350	D	1.32
FP138	80	350	G	1.71
FP140	125	350	H	2.37
FP142	10	450	A	.93
FP143	15	450	B	1.02
FP144	20	450	B	1.08

Mallory No.	Cap. Mfd.	Wkg. V. DC	*	Net Each
FP145	30	450	C	1.17
FP146	40	450	C	1.23
FP148	60	450	G	1.68
FP149	80	450	G	1.83
FP150	100	450	H	2.07
FP171	10	500	B	.96
FP173	20	500	B	1.11
FP175	30	500	C	1.20
FP177	40	500	D	1.50
FP187	90	500	H	2.10

FP-WP—DUALS

Mallory No.	Capacity Mfd.	Working Volts DC	*	Net Each
WP204	250-1000	10-6	F	$1.71
WP205	5Z-2.5Z/15750†-60†	12-6V	I	2.16
WP200	1000-1000	15-15	G	2.64
WP201.1	40-40	25-25	B	.93
WP202.1	50-50	50-50	B	1.02
WP202.5	100-100	50-50	B	1.26
WP206	50-150	150-25	C	1.32
FP208	20-20	150-150	B	1.02
FP211	30-30	150-150	B	1.11
FP210	40-20	150-150	B	1.08
FP212	40-40	150-150	C	1.14
FP213	50-30	150-150	B	1.20
FP214	50-50	150-150	C	2.04
FP214.5	75-75	150-150	F	1.56
FP216	80-40	150-150	D	1.38
FP215	125-100	150-150	G	2.04
FP216.1	200-5	150-150	G	1.65
FP216.3	200-150	150-150	I	2.25
FP216.4	200-200	150-150	I	2.40
FP216.6	60-60	200-200	D	1.53
FP216.8	40-25	250-150	C	1 29
FP217	20-20	250-250	B	1.14
FP221	40-40	250-250	D	1.50
FP217.7	150-150	250-250	I	3.09

Mallory No.	Capacity Mfd.	Working Volts DC	*	Net Each
FP217.8	20-60	300-250	D	1.65
FP217.9	75-75	300-300	H	2.28
FP218	120-20	300-300	H	2.40
FP225	15-15	350-350	B	1.35
FP227	20-20	350-350	C	1.38
FP227.3	30-30	350-350	D	1.74
FP227.5	80-40	350-350	H	2.16
FP227.6	80-80	350-350	I	2.82
FP229	35-100	400-50	D	1.56
FP229.4	80-60	400-400	I	2.82
FP229.3	75-75	400-400	I	2.91
FP229.5	120-40	400-400	I	3.15
FP229.6	50-100	450-50	G	1.80
FP244	80-50	450-50	H	2.10
FP229.8	80-100	450-50	H	2.25
FP229.9	30-200	450-150	H	2.10
FP230	20-50	450-250	D	1.68
FP230.3	40-10	450-300	D	1.56
FP235	20-80	450-350	G	2.19
FP230.6	10-100	450-350	H	2.40
WP230.9	5-5	450-450	B	1.02
FP231	10-10	450-450	B	1.14
FP231.3	20-10	450-450	C	1.32
FP234	20-20	450-450	D	1.53
FP237	30-30	450-450	G	1.83

Mallory No.	Capacity Mfd.	Working Volts DC	*	Net Each
FP238	40-40	450-450	H	2.07
FP239	50-40	450-450	H	2.19
FP240	50-50	450-450	H	2 31
FP242	60-20	450-450	H	2.10
FP242.5	60-60	450-450	I	2.70
FP245	80-10	450-450	H	2.16
FP245.2	80-20	450-450	H	2.34
FP245.3	80-30	450-450	I	2.49
FP247	100-40	450-450	I	2.91
FP250	40-80	475-200	G	2.19
FP255	20-100	475-300	H	2.37
FP256	20-100	475-400	I	2.70
FP258	15-15	475-475	C	1.41
FP259	30-10	475-475	D	1.56
FP260	40-10	475-475	H	1.86
FP262	40-40	475-475	H	2.58
FP263	60-40	475-475	I	2.73
FP264.5	80-40	475-475	I	3.03
FP266	80-50	475-475	I	3.12
FP277	60-80	500-150	H	2.25
FP280	40-50	500-200	G	1.98
FP284	30-30	500-500	G	1.95
FP288	40-40	500-500	H	2.58

FP-WP—TRIPLES

Mallory No.	Capacity Mfd.	Working Volts DC	*	Net Each
WP520	40-40-40	25-25-25	B	$1.29
WP301	30-30-30	50-50-50	B	1.29
FP303	20-250-100	150-15-15	F	1.74
FP312	100-50-25	150-50-25	D	1.80
WP302.1	15-15-1200	150-150-2	B	1.80
FP302.4	80-20-200	150-150-10	F	1.71
FP302.7	80-30-300	150-150-10	F	1.89
FP302.8	100-80-200	150-150-10	G	2.16
FP302.9	80-20-100	150-150-15	F	1.68
FP306	40-20-20	150-150-25	B	1.38
FP307	40-20-100	150-150-25	C	1.50
FP304	40-20-200	150-150-25	C	1.62
FP310	40-40-20	150-150-25	C	1.44
FP314	40-40-200	150-150-25	D	1.68
WP308.1	40-40-250	150-150-25	D	1.89
FP309	50-30-100	150-150-25	C	1.62
FP311	50-50-20	150-150-25	D	1.59
FP311.1	80-40-25	150-150-25	D	1.65
FP311.15	80-40-300	150-150-25	G	2.22
FP311.2	20-20-20	150-150-150	B	1.38
FP311.4	40-20-20	150-150-150	C	1.44
FP311.5	40-40-40	150-150-150	D	1.56
FP311.55	50-20-20	150-150-150	C	1.53
FP311.6	50-40-10	150-150-150	C	1.53
FP311.65	50-50-50	150-150-150	D	1.80
FP311.67	80-30-10	150-150-150	D	1.65
FP311.7	80-40-20	150-150-150	F	1.74
FP311.9	120-120-40	150-150-150	H	2.43
FP312.5	200-100-60	150-150-150	I	2.73
FP318.3	30-20-40	200-200-150	C	1.62
FP318.5	20-20-20	200-200-200	C	1.50
FP318 7	30-20-20	200-200-200	C	1.62
FP319	80-40-50	250-150-50	G	1.98
FP319 5	90-90-20	250-250-50	H	2.76
FP319.8	20-20-20	250-250-250	B	1.56
FP320	40-20-20	250-250-250	F	1.74
FP321	40-20-20	250-250-250	D	1.74
FP326	100-60-20	300-150-25	H	2.52
FP326.2	20-150-80	300-150-150	H	2.37
FP326.4	60-30-30	300-250-250	G	2.25
FP335	100-60-20	300-250-250	H	2.94
FP336	200-60-20	300-250-250	I	3.48
FP326.6	100-10-60	300-300-50	G	2.43
WP326.8	4-100-40	350-25-25	B	1.35
FP327	40-100-25	350-50-25	F	1.92

Mallory No.	Capacity Mfd.	Working Volts DC	*	Net Each
WP327.2	20-50-100	350-100-75	D	1.98
FP327.4	125-5-100	350-200-75	I	3.18
FP327.6	30-20-100	350-250-50	D	1.95
FP331	30-30-20	350-300-25	D	1.89
FP327.8	30-50-20	350-300-25	G	2.16
FP328	15-10-20	350-350-25	B	1.50
WP329.1	20-4-100	350-350-25	D	1.56
FP330	30-20-20	350-350-25	D	1.86
FP330.15	10-5-30	350-350-50	B	1.32
FP330.2	10-5-150	350-350-50	C	1.62
FP330.21	20-5-150	350-350-50	D	1 77
FP330.25	30-20-100	350-350-150	G	2.40
FP330.3	20-10-5	350-350-250	B	1.53
FP330.5	10-10-10	350-350-350	B	1.44
FP330.7	30-20-10	350-350-350	D	1.95
FP330.9	60-50-50	350-350-350	I	2.94
FP331.3	80-60-60	350-350-350	I	3.33
FP331.6	90-40-20	350-350-350	I	3.15
FP333	10-50-30	400-350-25	F	1.86
FP333.2	80-40-100	400-400-50	I	3.00
FP333.3	80-40-150	400-400-50	I	3.09
FP333.5	20-10-40	400-400-350	E	2.04
FP333.6	20-20-10	400-400-350	D	1.80
FP333.7	60-30-20	400-400-350	H	2.73
FP333.8	80-20-10	400-400-350	H	2.58
FP333.9	90-10-5	400-400-400	H	2.64
FP342	40-40-130	450-150-50	G	2.22
FP343	40-100-50	450-150-50	H	2.37
WP339.5	10-50-100	450-150-75	D	1.95
FP340	20-50-100	450-150-75	F	2.04
FP341	40-90-50	450-150-150	H	2.40
FP341.3	20-80-50	450-200-150	G	2.16
FP341.5	20-60-100	450-250-25	G	2.19
FP341.8	10-80-80	450-250-250	H	2.61
FP342.2	5-80-40	450-300-300	H	2.49
FP342.5	30-15-40	450-350-25	F	1.92
FP342.7	30-40-50	450-350-25	E	2.22
FP343.1	15-20-20	450-350-250	D	1.77
FP343.4	20-15-15	450-350-350	D	1.95
FP343.6	20-40-10	450-350-350	G	2.10
FP343.9	10-30-150	450-400-5	D	1.80
FP344.2	60-80-20	450-400-250	I	3.27
FP344.4	4-40-40	450-400-300	G	2.22
FP344.5	10-30-40	450-400-300	G	2.19
FP345.2	10-10-20	450-450-25	B	1.44

Mallory No.	Capacity Mfd.	Working Volts DC	*	Net Each
FP345.3	40-20-20	450-450-25	G	2.10
FP345.4	80-10-125	450-450-25	H	2.64
FP345.5	15-15-40	450-450-25	C	1.65
FP345.8	20-20-20	450-450-25	D	1.83
FP346	40-40-20	450-450-25	H	2.37
FP364	80-40-100	450-450-25	I	3.06
FP366	20-10-50	450-450-50	D	1.71
FP366.5	30-10-150	450-450-50	G	2.10
FP367	35-25-100	450-450-50	H	2.37
FP367.5	40-30-25	450-450-50	G	2.25
FP368	60-40-75	450-450-50	I	2.76
FP368.3	80-20-100	450-450-50	I	2.88
FP386.6	30-30-125	450-450-75	H	2.70
FP369.1	40-40-40	450-450-150	H	2.49
FP370	40-10-80	450-450-200	H	2.34
FP375	40-40-100	450-450-200	I	2.97
FP375.2	15-10-120	450-450-300	I	2.70
FP375.4	40-40-60	450-450-350	I	2.94
FP375.5	40-40-80	450-450-350	I	3.33
FP375.6	60-20-40	450-450-350	I	2.94
FP375.7	20-10-15	450-450-400	D	1.86
FP375.8	10-10-10	450-450-450	C	1.56
FP376.1	15-15-10	450-450-450	D	1.77
FP376.3	20-10-10	450-450-450	D	1.74
FP376.5	20-20-20	450-450-450	G	2.16
FP376.7	30-30-30	450-450-450	H	2.67
FP376.8	40-40-10	450-450-450	H	2.49
FP376.9	40-40-20	450-450-450	H	2.67
FP377	40-40-40	450-450-450	I	2.54
FP377.2	50-40-30	450-450-450	I	2.94
FP377.4	60-10-10	450-450-450	H	2.94
FP377.6	60-30-10	450-450-450	H	2.70
FP378	80-40-20	450-450-450	I	3.24
FP379.1	20-50-20	475-50-25	D	1.65
FP381.1	80-80-50	475-150-50	I	2.91
FP382.1	40-40-100	475-200-100	H	2.46
FP384	20-20-40	475-300-25	F	1.86
FP384.2	10-4-40	475-350-300	F	1.80
FP384.5	10-45-100	475-450-50	H	2.19
FP384.7	40-40-25	475-450-50	H	2.64
FP385	10-40-100	475-450-200	H	2.52
FP385.5	40-80-10	475-450-450	I	3.30
FP386	10-10-5	475-475-25	C	1.47
FP387.1	10-10-150	475-475-50	D	1.80
FP388.1	25-20-10	475-475-50	D	1.77

*Size. †Cycles.

Mallory Electrolytic Capacitors

FP-WP—TRIPLES—CONTINUED

Mallory No.	Capacity Mfd.	Working Volts DC	*	Net Each
P389.1	20-10-100	475-475-400	I	3.15
P391.1	20-20-60	475-475-450	I	2.91
P394	10-10-10	475-475-475	D	1.62
P396	30-30-20	475-475-475	H	2.67
FP396.1	40-20-20	475-475-475	H	2.85
FP396.12	40-30-10	475-475-475	H	2.70
FP396.14	40-30-30	475-475-475	I	3.09
FP396.2	40-10-10	475-475-475	G	2.31
FP397	40-35-10	475-475-475	H	2.73
FP398	10-40-40	500-450-450	H	2.49

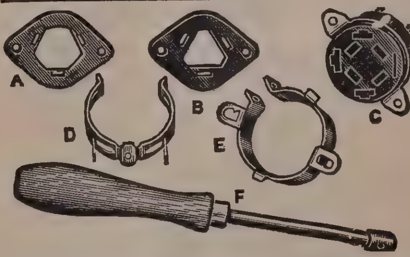
FP-WP—QUADS

Catalog No.	Capacity Mfd.	Working Volts DC	*	Net Each
FP403	50-20-150-30	150-150-15-15	F	$1.92
FP405	20-20-160-40	150-150-25-25	F	1.92
WP405.5	40-50-160-40	150-150-25-25	F	2.01
WP406	40-40-200-100	150-150-25-25	F	2.13
FP407	30-20-20-200	150-150-150-10	F	1.86
FP407.5	40-40-20-200	150-150-150-10	F	1.92
FP408	60-40-20-200	150-150-150-10	F	2.07
FP408.5	80-80-10-200	150-150-150-10	G	2.34
FP409	40-40-30-20	150-150-150-25	F	1.86
FP409.4	50-20-20-200	150-150-150-25	F	2.10
FP410	50-50-50-20	150-150-150-25	G	2.13
FP410.3	60-40-20-20	150-150-150-25	F	1.98
FP410.7	60-60-10-60	150-150-150-25	G	3.10
FP411	80-40-30-100	150-150-150-25	G	2.22
FP411.3	80-40-40-20	150-150-150-25	G	2.10
FP411.32	80-40-40-40	150-150-150-25	G	2.16
FP411.4	80-50-50-25	150-150-150-25	G	2.28
FP411.5	100-90-60-200	150-150-150-25	H	2.97
FP411.7	125-125-40-100	150-150-150-25	I	2.91
FP412	100-80-60-40	150-150-150-150	H	2.79
FP412.2	40-40-50-80	250-250-150-50	G	2.46
FP417	100-40-80-20	300-50-25-25	G	2.73
FP417.3	10-200-140-30	300-150-150-150	I	3.06
FP417.8	10-200-200-30	300-150-150-150	I	3.21
FP418.3	120-20-100-20	300-250-50-25	I	3.03
FP419	200-20-100-20	300-250-50-25	I	3.48
FP419.1	150-20-10-250	300-300-250-50	I	3.63
FP419.2	40-30-20-50	300-300-300-25	G	2.49
FP419.7	60-40-20-50	300-300-300-25	H	2.79
FP419.35	60-30-10-60	300-300-300-50	G	2.52
FP419.4	100-10-200-30	300-300-150-150	I	3.54
FP419.5	40-40-30-20	300-300-300-300	H	2.91
FP419.53	60-40-10-10	300-300-300-300	H	2.73
FP419.56	60-60-30-160	350-150-150-25	H	2.76
FP419.58	20-60-160-40	350-200-25-25	G	2.40
FP414	15-80-40-200	350-200-200-25	H	2.70
FP416	40-40-20-20	350-300-300-25	H	2.73
FP419.6	40-10-100-25	350-350-25-25	F	2.25
FP419.62	60-40-100-40	350-350-25-25	G	2.28
FP419.64	40-20-50-25	350-350-150-25	G	2.49
FP419.66	60-40-60-20	350-350-250-150	I	3.24
FP419.68	15-15-15-15	350-350-300-25	F	2.07
FP419.8	35-35-10-20	350-350-300-25	G	2.49
FP419.82	20-10-5-10	350-350-350-25	F	1.86
FP419.84	30-10-5-200	350-350-350-25	F	2.28
FP419.86	40-20-5-10	350-350-350-25	G	2.28
FP419.88	40-30-15-30	350-350-350-25	G	2.70
FP419.3	40-40-20-20	350-350-350-25	H	2.79
FP419.9	15-15-15-50	350-350-350-50	F	2.25
FP420.2	50-40-40-160	350-350-350-50	I	3.45
FP420.23	100-10-10-20	350-350-350-50	H	3.09
FP420.26	100-40-30-50	350-350-350-50	I	3.93
FP420.29	90-30-5-100	350-350-350-75	I	3.54
FP420.32	20-10-5-60	350-350-350-200	G	2.19
FP420.35	40-20-20-10	350-350-350-350	G	2.61
FP420.38	40-40-40-40	350-350-350-350	I	3.60
FP420.21	40-120-10-150	400-250-250-50	I	3.48
FP420.44	30-40-50-200	400-300-250-150	I	3.60
FP420.47	20-50-40-80	400-350-350-50	H	3.00
FP420.5	30-60-20-100	400-350-350-50	I	3.00
FP420.53	20-5-20-20	400-400-25-25	F	1.83
FP420.56	50-25-100-20	400-400-50-25	H	2.79
FP420.6	80-40-100-20	400-400-50-25	I	3.36
FP420.8	20-10-10-25	400-400-100-25	F	1.86
FP421	5-5-50-80	400-400-300-250	H	2.79
FP421.2	60-40-40-10	400-400-350-50	I	3.45
FP421.4	30-30-15-20	400-400-400-25	H	2.58
FP421.6	80-40-30-40	400-400-400-25	I	3.57
FP421.8	40-40-40-150	400-400-400-50	I	3.42
FP422.1	20-80-20-50	450-200-200-50	G	2.46
FP422.7	60-80-40-20	450-250-250-150	I	3.39
FP422.9	10-100-20-20	450-300-300-300	H	3.15
FP413X	40-40-40-20	450-300-300-150	H	2.94
FP423.4	10-40-100-100	450-350-250-50	H	3.33
FP424.1	10-100-10-20	450-350-350-25	H	3.12
FP425.1	80-10-40-30	450-400-300-300	I	3.48
FP426	20-15-20-20	450-450-25-25	F	2.07
FP426.5	20-20-60-100	450-450-150-25	G	2.55
FP426.9	40-40-125-125	450-450-150-25	I	3.42
FP427.5	10-10-60-100	450-450-200-50	G	2.31
FP427.6	35-25-20-100	450-450-200-50	H	3.99
FP427.7	10-10-10-50	450-450-300-25	F	1.89
FP427.9	20-20-20-10	450-450-350-350	H	2.49
FP428	40-10-35-10	450-450-350-350	H	2.76
FP428.4	40-40-30-30	450-450-350-350	I	3.54
FP424	15-15-10-20	450-450-450-25	F	2.10
FP428.9	30-30-10-125	450-450-450-25	H	2.58
FP432	40-10-10-250	450-450-450-25	H	2.82
FP431	40-15-10-25	450-450-450-25	G	2.46
FP430.2	40-20-20-25	450-450-450-25	H	2.76
FP436	40-20-20-40	450-450-450-25	H	2.79
FP429	40-30-10-20	450-450-450-25	H	2.70
FP430.6	40-40-40-40	450-450-450-25	I	3.30
FP430.9	60-40-40-10	450-450-450-25	I	3.60
FP430.95	60-50-5-20	450-450-450-25	I	3.21
FP437	20-20-20-100	450-450-450-50	G	2.73
FP431.2	40-40-10-25	450-450-450-50	H	2.82
FP431.3	40-40-10-50	450-450-450-50	I	2.13
FP431.4	60-40-10-25	450-450-450-50	I	3.15
FP431.7	40-40-10-100	450-450-450-100	I	3.18
FP433	60-10-10-20	450-450-450-150	H	2.76
FP432.4	40-40-30-10	450-450-450-200	I	3.21
FP432.9	40-20-10-100	450-450-450-250	I	3.51
FP433.2	40-10-10-40	450-450-450-350	H	2.85
FP433.4	40-20-20-20	450-450-450-350	H	3.00
WP433.6	5-5-5-5	450-450-450-450	F	1.80
FP434	10-10-10-10	450-450-450-450	F	2.01
FP434.5	20-10-10-10	450-450-450-450	F	2.22
FP444	20-20-20-20	450-450-450-450	H	2.82
FP444.4	30-15-15-15	450-450-450-450	H	2.67
FP444.5	30-20-20-10	450-450-450-450	H	2.76
FP444.6	30-30-15-10	450-450-450-450	H	2.82
FP444.8	30-30-20-20	450-450-450-450	H	3.12
FP444.9	30-30-30-15	450-450-450-450	I	3.18
FP445	35-35-10-5	450-450-450-450	H	2.76
FP446	40-35-10-10	450-450-450-450	H	2.88
FP447	40-40-20-20	450-450-450-450	I	3.33
FP447.5	40-40-30-30	450-450-450-450	I	3.63
FP448	60-20-20-20	450-450-450-450	I	3.39
FP448.5	60-30-10-2	450-450-450-450	H	3.06
FP449	70-10-10-5	450-450-450-450	H	2.85
FP450	80-10-10-10	450-450-450-450	I	3.03
FP451	10-100-10-100	475-300-300-25	H	2.94
FP452	20-80-20-10	475-300-300-300	H	3.00
FP453	20-40-80-100	475-350-200-100	I	3.27
FP453.4	10-40-80-100	475-350-300-100	I	3.33
FP453.8	10-30-5-80	475-350-350-50	G	2.22
FP454.2	20-60-40-10	475-350-350-350	H	3.12
FP454.6	10-40-4-100	475-400-350-50	G	2.43
FP456	25-20-40-100	475-450-300-50	H	2.97
FP456.5	10-60-30-125	475-450-400-50	I	3.33
FP455	10-50-30-30	475-450-450-25	H	2.85
FP459	10-40-10-100	475-450-450-50	G	2.58
FP461	15-15-80-40	475-475-300-50	H	2.88
FP463	50-30-20-20	475-475-300-300	I	3.42
FP464.9	40-10-4-40	475-475-350-300	H	2.97
FP467	20-10-20-100	475-475-450-25	G	2.52
FP474	10-10-10-10	475-475-475-475	F	2.10
FP474.5	20-20-10-10	475-475-475-475	G	2.61
FP475	20-20-20-20	475-475-475-475	H	3.12
FP475.5	40-10-10-10	475-475-475-475	H	2.79
FP476	40-20-10-10	475-475-475-475	H	3.06
FP495	40-40-8-8	500-500-500-500	I	3.42

*Size. †Cycles.

*SIZES

Key	Diameter	Length	Key	Diameter	Length
A	¾″	2″	F	1⅜″	2″
B	1″	2″	G	1⅜″	2½″
C	1″	2½″	H	1⅜″	3″
D	1″	3″	I	1⅜″	4″
E	1″	4″			



HARDWARE CAPACITOR

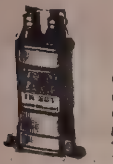
For FP or WP capacitors use MP, BP, PS and MW-100 units. For TC, FP, WP and other tubulars use VR brackets for vertical mtg. or TH spring clips for horizontal mtg.

Mallory No.	Fig.	Size, Inches	Net	Mallory No.	Fig.	Size, Inches	Net
MP-2	A‡	¾	3c	**TH-13**	D	⅜	3c
MP-4	A‡	1	3c	**TH-15**	D	½-9/16	3c
MP-6	A‡	1⅜	3c	**TH-17**	D	⅝-11/16	3c
BP-2	B†	¾	3c	**TH-19**	D	¾-11/16	3c
BP-4	B†	1	3c	**TH-21**	D	⅞-15/16	3c
BP-4A	B†	1	3c	**TH-23**	D	1-1 1/16	3c
BP-6	B†	1⅜	3c	**TH-25**	D	1⅜-1 7/16	6c
PS-4	C	1	42c	**MW-100**	F	Mtg. Wrench	#
PS-6	C	1⅜	54c	**CE-1****			6c
PSC-4	Ret. Clamp		6c	**CE-3****			6c
VR-1	E	1-1 1/16	9c	**CE-4****			6c
VR-3	E	1⅜-1 7/16	9c	**CE-5****			6c
VR-4	E	1½-1 9/16	12c	**CE-6****			6c
VR-6	E	1¾-1 13/16	15c	**CE-7****			6c
VR-8	E	2-2 1/16	18c	**CE-8****			9c
VR-10	E	2½	21c	**CE-9****			6c
				CE-10**			9c

‡Metal. †Bakelite. **CE insulating sleeves, closed end type.
#Net Each **$1.05**.

Mallory High Voltage Capacitors

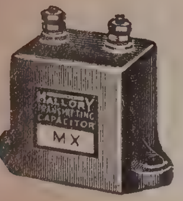
TYPE TX OIL FILLED RECTANGULAR CAPACITORS



Compact rectangular oil filled capacitors of sturdy construction for all radio, television and transmitting circuits requiring high voltage capacitors. Suitable standoff insulated terminals are provided at one end to safely cover maximum voltage rating of each unit. Units with base dimensions less than 3½" x 5⅛" are mounted by a rectangular clamp providing either upright or inverted position. Larger sizes are mounted by permanent flanges at the unit base. Shipping weight 5 lbs.

Mallory No.	Cap. Mfd.	Working Volts DC	*Size, In. W. x L. x H.	Net Each
TX801	1	600	1x1¾x2⅛	$3.12
TX802	2	600	1x1¾x2⅝	3.90
TX803	4	600	1x1¾x4¼	5.10
TX816	6	600	1 3/16x2½x4⅝	6.30
TX817	10	600	1¼x3¾x4⅝	8.40
TX822	.5	1000	1x1¾x2⅛	2.73
TX804	1	1000	1x1¾x2⅝	3.42
TX805	2	1000	1x1¾x3⅞	4.56
TX806	4	1000	1 3/16x2½x4⅝	5.76
TX824	6	1000	1¼x3¾x4⅝	7.65
TX825	10	1000	1¾x3¾x4⅝	9.30
TX807	1	1500	1x1¾x4¼	4.11
TX808	2	1500	1 3/16x2½x4⅝	5.70
TX809	4	1500	1½x3¾x4⅝	7.65
TX829	6	1500	1¾x3¾x4⅝	9.45
TX830	10	1500	3 3/16x3¾x4⅝	13.80
TX831	.25	2000	1x1¾x2⅛	3.90
TX832	.5	2000	1x1¾x2⅞	4.14
TX810	1	2000	1 3/16x2½x3⅜	5.04
TX811	2	2000	1¼x3¾x4¼	5.97
TX823	4	2000	2¼x3¾x4¾	8.25
TX833	6	2000	3 3/16x3¾x4⅝	10.80
TX834	10	2000	4 9/16x3¾x4⅝	17.10
TX812	1	2500	1 3/16x2½x4¼	7.35
TX813	2	2500	1¼x3 23/32x4 7/32	12.00
TX835	.1	3000	1 3/16x2½x2⅜	7.65
TX836	.25	3000	1 3/16x2½x3⅜	8.40
TX837	.5	3000	1 3/16x2½x4⅝	9.30
TX814	1	3000	1¾x3¾x4⅝	11.25
TX815	2	3000	3 3/16x3¾x4⅝	13.95
TX838	4	3000	4 9/16x3¾x5½	20.40
TX839	1	4000	2¼x3¾x4¾	20.40
TX827	2	4000	4 9/16x3¾x4¾	25.80
TX818	1	5000	5⅛x3½x5⅝	23.40
TX819	2	5000	5⅛x3½x9	30.00
TX820	.5	6000	4⅜x5⅛x3½	37.20
TX821	1	6000	3 15/16x4 13/16x6 13/16	46.20

TYPE MX MICA TRANSMITTING CAPACITORS



For amateur transmitting equipment, coupling, tank and bypass circuits at radio frequencies within their rating. Heavy-duty mica construction, supplied in rectangular porcelain cases. Two screw type terminals with complete washer and nut assembly. Cases have two flanges with ample holes for machine screw mounting.

Mallory No.	Cap. Mfd.	Test VoltsDC	Max. Amps.	Freq. KC.	Net Each
MX855	.001	12,500	9.0 10.0 11.0 12.0	15000 7500 3750 1875	$4.80
MX857	.002	12,500	9.0 12.0 13.0 15.0	15000 7500 3750 1875	$6.60
MX865	.005	10,000	10.0 13.0 14.0 15.0	15000 7500 3750 1875	$8.70
MX875	.01	7,000	10.0 13.0 15.0 15.0	15000 7500 3750 1875	$9.15
MX877	.02	3,500	10.0 13.0 17.0 17.0	15000 7500 3750 1875	$9.60
MX885	.05	3,500	11.0 14.0 16.0 18.0	15000 7500 3750 1875	$11.10
MX895	.1	2,000	11.0 14.0 16.0 18.0	15000 7500 3750 1875	$11.10

TYPES PS-MSG MOTOR STARTING CAPACITORS

PS and **MSG** types are applicable for intermittent duty in starting AC motors where round cases are required.

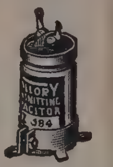
PS types are dry electrolytic non-polarized capacitors in round cases. Furnished in moisture-proof molded plastic containers.

MSG types in rectangular cases with terminal arrangements similar to the original capacitors they replace. Equipped with two capacitor and two dummy terminals. Two solder lugs at one end of the **PS** types. Type **PS**, except as noted below, may also be mounted by means of a plastic end cap (type PL) and sturdy metal snap-in type bracket (type HB), furn. separately when desired.

Mallory No.	Mfd. New	Rating Old	Volts AC	Size D. x L.	Net Each
PS2010*	20	20–24	110	1 7/16x2¾	$1.23
PS2610*	26	26–30	110	1 7/16x2¾	1.26
PS3210*	32	32–36	110	1 7/16x2¾	1.26
PS3810*	38	38–42	110	1 7/16x2¾	1.26
PS4310*	43	43–48	110	1 7/16x2¾	1.26
PS5310	53	53–60	110	1 7/16x3⅜	1.29
PS6410	64	64–72	110	1 7/16x3⅜	1.35
PS7010	70	70–78	110	1 7/16x3⅜	1.44
PS7510	75	75–84	110	1 7/16x3⅜	1.53
PS8610	86	86–96	110	1 7/16x3⅜	1.59
PS9710	97	97–107	110	1 7/16x3⅜	1.68
PS10810	108	108–120	110	1 7/16x3⅜	1.71
PS12410	124	124–138	110	1 7/16x3⅜	1.77
PS13010	130	130–157	110	1 7/16x3⅜	1.77
PS14510	145	145–162	110	1 7/16x3⅜	1.92
PS16110	161	161–180	110	1 7/16x3⅜	1.95
PS19410	194	194–216	110	1 7/16x3⅜	2.34
PS20010	200	200–220	110	1 7/16x4⅜	2.34
PS21610	216	216–240	110	1 13/16x3⅜	2.43
PS24310	243	243–270	110	1 13/16x3⅜	2.82
PS27010	270	270–300	110	1 13/16x4⅜	2.85
PS32410	324	324–360	110	1 13/16x4⅜	3.24
PS34010	340	340–412	110	1 13/16x4⅜	3.33
PS37810	378	378–420	110	2 1/16x4⅜	3.60
PS40010	400	400–450	110	2 1/16x4⅜	3.63
PS43010	430	430–485	110	2 1/16x4⅜	4.17
PS48510	485	485–540	110	2 1/16x4⅜	4.56
PS2520	25	25–30	220	1 7/16x3⅜	2.76
PS3220	32	32–36	220	1 13/16x3⅜	2.94
PS3820	38	38–42	220	1 13/16x3⅜	3.18
PS4320	43	43–48	220	1 13/16x3⅜	3.33
PS5320	53	53–60	220	1 13/16x3⅜	3.45
PS6420	64	64–72	220	1 13/16x4⅜	4.05
PS7020	70	70–78	220	2 1/16x4⅜	4.20
PS7520	75	75–84	220	2 1/16x4⅜	4.41
PS8620	86	86–96	220	2 1/16x4⅜	4.59

*Cases will not accommodate PL caps and HB brackets.

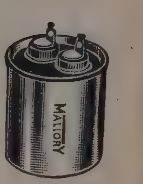
TYPE TZ OIL IMPREGNATED ROUND CAPACITORS



Oil impregnated type capacitors furnished in round containers for upright or inverted mounting. All units internally insulated from case. For filter and bypass circuits in power amplifiers, television and transmitting equipment where compact round can units are desired. The 1⅜" diameter units have two solder lug terminals with ample insulation for the rated voltages. The 2" units have special standoff insulated terminals. Supplied with bracket for inverted or upright mounting. Ave. ship. wt. 3 lbs.

Mallory No.	Cap. Mfd.	Working Volts DC	Size, In. Dia. x Height	Net Each
TZ382	2.0	600	1x2⅝	$2.79
TZ383	4.0	600	1⅜x4⅛	3.72
TZ384	1.0	1000	1⅜x2⅝	2.58
TZ385	2.0	1000	1⅜x4⅛	3.27
TZ389	4.0	1000	2x4	4.35
TZ386	.5	1500	1⅜x3⅛	3.03
TZ387	1.0	1500	1⅜x4 11/16	3.27
TZ388	2.0	1500	2x4	4.35
TZ390	1.0	2000	2x3¼	4.11
TZ391	2.0	2000	2x4½	4.56

TYPE RP CONTINUOUS DUTY OIL IMPREGNATED CAPACITORS



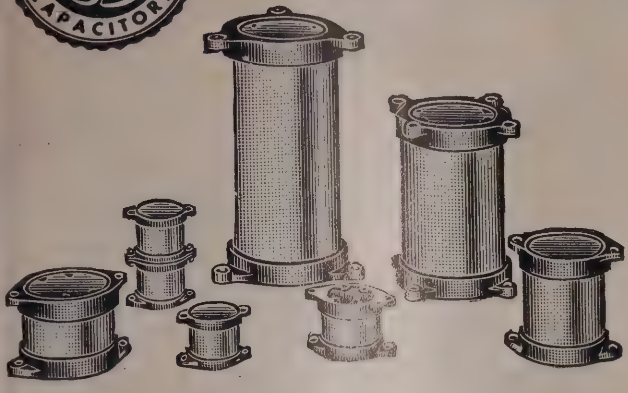
Designed primarily for heavy duty AC applications. May be used as motor running capacitors, fluorescent light ballast, etc., where continuous duty is required. Supplied in metal cases, these units may be safely operated at voltages up to 10% above rated values and at temperatures as high as 75° C. Impregnating oil is non-inflammable and non-oxidizing.

Mallory No.	Cap. Mfd.	Volts AC	Size Dia. x Lgth.	Net Each
RP-3301	1	330	1⅜x1 15/16	$2.52
RP-3302	2	330	1⅜x3 3/16	3.12
RP-3303	3	330	2x2⅜	3.33
RP-3304	4	330	2x2¾	3.72
RP-3305	5	330	2x3¼	4.08
RP-3306	6	330	2x3⅞	4.50
RP-3307	7	330	2x4¼	4.74
RP-3308	8	330	2x5⅛	5.01
RP-3310	10	330	2½x4 9/16	5.73
RP-3312	12	330	2½x5 3/16	6.54
RP-3315	15	330	2½x6 1/16	8.28

High Voltage Mica Capacitors

CERAMIC CASED HIGH-POWER MICA CAPACITORS

Ceramic cased capacitors for efficient and economical handling of the high kva requirements of radio and TV transmitters and associated circuits as well as industrial electronic equipment. Heavy duty group in demand for high kva pre-1948 transmitters. Also used in induction heating, as high frequency filters, in Loran circuits, etc. Both heavy duty and Broadcast Types find use in grid, plate blocking, coupling, tank and bypass applications. Elements are encased in low-loss ceramic tube with cast aluminum terminal ends. For higher currents or voltages, bolt or strap units of the proper specifications together in series or parallel.



BROADCAST MICA TRANSMITTING CAPACITORS

BROADCAST TYPE 50

C-D Number	Capacity µf	Peak Working Voltage	Net Each
2210-50	.0001	10,000	$ 39.33
2220-50	.00015	10,000	39.33
2230-50	.0002	10,000	39.33
2251-50	.00051	10,000	39.33
2271-50	.00082	10,000	39.33
2280-50	.001	10,000	39.33
2300-50	.0015	10,000	39.33
2310-50	.002	10,000	39.33
2333-50	.0043	8,000	39.33
2341-50	.0051	6,000	39.33
2360-50	.01	5,000	41.49
2370-50	.015	4,000	41.49
2380-50	.02	3,000	41.49

BROADCAST TYPE 51

C-D Number	Capacity µf	Peak Working Voltage	Net Each
2411-51	.000051	20,000	$ 67.14
2420-51	.0001	20,000	72.60
2430-51	.00015	20,000	75.60
2440-51	.0002	20,000	78.66
2483-51	.00051	20,000	82.29
2501-51	.00082	20,000	82.29
2510-51	.0001	20,000	84.69
2530-51	.0015	15,000	85.92
2550-51	.002	15,000	85.92
2583-51	.0043	12,000	90.75
2591-51	.0051	10,000	90.75
2610-51	.01	8,000	88.32
2620-51	.02	5,000	90.75

BROADCAST TYPE 52

C-D Number	Capacity µf	Peak Working Voltage	Net Each
2710-52	.0001	30,000	$126.18
2720-52	.00015	30,000	126.18
2740-52	.0003	30,000	132.70
2763-52	.00043	30,000	132.70
2773-52	.00051	30,000	132.70
2791-52	.00082	30,000	132.70
2800-52	.001	30,000	137.46
2820-52	.002	20,000	137.46
2853-52	.0043	15,000	140.58
2861-52	.0051	15,000	145.20
2882-52	.0082	12,000	156.00
2890-52	.01	10,000	163.46
2911-52	.043	5,000	163.46

BROADCAST TYPE 59

C-D Number	Capacity µf	Peak Working Voltage	Net Each
2011-59	.000051	6,000	$ 22.92
2020-59	.0001	6,000	24.36
2040-59	.0002	6,000	24.36
2060-59	.0003	6,000	24.36
2083-59	.00051	6,000	27.99
2100-59	.001	6,000	27.99
2120-59	.002	6,000	29.34
2140-59	.003	6,000	30.36
2161-59	.0051	4,000	30.36
2170-59	.01	4,000	30.87
2180-59	.02	2,000	30.87

SIZE DATA

For both Heavy Duty and Broadcast Types.

Type	Base	Height
50	5" x 3½"	3"
51	6½" x 5"	4"
52	6½" x 5"	5¾"
57	8½" x 8½"	14"
59	3 13/16" x 2 13/16"	2½"

Type CM Capacitors. Type 50 is similar to CM80; Type 51 is similar to CM85; Type 52 is similar to CM90; Type 59 is similar to CM75. These CM Types are JAN-C-5. For further information concerning CM, write for C-D Mica Capacitor Catalog No. 420.

Catalog No. 420 also contains additional technical specifications for the above Broadcast and Heavy Duty Capacitors.

HEAVY DUTY INDUSTRIAL MICA CAPACITORS

HEAVY DUTY TYPE 50

C-D Number	Capacity µf	Peak Working Voltage	Net Each
278-50	.0005	12,500	$ 49.17
250-50	.001	12,500	49.17
238-50	.0015	10,000	49.17
223-50	.002	10,000	49.17
191-50	.004	8,000	49.17

HEAVY DUTY TYPE 51

C-D Number	Capacity µf	Peak Working Voltage	Net Each
252-51	.001	20,000	$105.87
239-51	.0015	20,000	113.43
225-51	.002	15,000	105.87
193-51	.004	12,000	113.43
158-51	.01	10,000	113.43

HEAVY DUTY TYPE 52

C-D Number	Capacity µf	Peak Working Voltage	Net Each
298-52	.0003	35,000	$165.87
286-52	.0004	35,000	165.87
485-52	.005	20,000	189.18
164-52	.008	12,000	195.00
430-52	.01	15,000	204.33

HEAVY DUTY TYPE 57

C-D Number	Capacity µf	Peak Working Voltage	Net Each
402-57	.0006	40,000	$322.20
676-57	.002	40,000	424.80
776-57	.004	30,000	483.30

HEAVY DUTY TYPE 59

C-D Number	Capacity µf	Peak Working Voltage	Net Each
544-59	.0005	7,500	$ 34.98
545-59	.001	7,500	34.98
572-59	.002	7,500	51.87
595-59	.003	6,000	37.95
547-59	.005	6,000	36.69
548-59	.01	5,000	38.58

"HIVOMIKE" HIGH VOLTAGE MIDGET MICAS

High voltage molded midget mica capacitors are ideal for use where capacitance stability and high Q, as well as smallest size are important. Recommended for commercial—civilian and military uses under Characteristic "B". Voltage ratings exceed those required under JAN C-5 specifications.

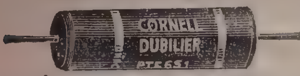
TYPE 5P (JAN CM20 CASE 51/64" X 15/32" X 7/32")

C-D No.	Cap., Mfd.	Volts, D.C.W.	Net Each
5P 25Q1	.00001	2500	21c
5P 25Q2	.00002	2500	21c
5P 25Q3	.00003	2500	24c
5P 25Q5	.00005	2500	24c
5P 25Q75	.000075	2500	30c
5P 25T1	.0001	2500	33c
5P 25T15	.00015	2500	39c
5P 25T2	.0002	2500	48c
5P 15Q1	.00001	1500	21c
5P 15Q2	.00002	1500	21c
5P 15Q3	.00003	1500	21c
5P 15Q5	.00005	1500	21c
5P 15Q75	.000075	1500	21c
5P 15T1	.0001	1500	24c
5P 15T15	.00015	1500	24c
5P 15T2	.0002	1500	27c
5P 15T25	.00025	1500	33c
5P 15T3	.0003	1500	36c
5P 15T47	.00047	1500	42c
5P 15T5	.0005	1500	42c

TYPE 1DP (JAN CM35 CASE 13/16" X 13/16" X 5/16")

C-D No.	Cap., Mfd.	Volts, D.C.W.	Net Each
1DP 25T25	.00025	2500	$0.36
1DP 25T3	.0003	2500	.39
1DP 25T5	.0005	2500	.51
1DP 25T75	.00075	2500	.66
1DP 25D1	.001	2500	.84
1DP 25D12	.0012	2500	.90
1DP 25D15	.0015	2500	1.11
1DP 25D18	.0018	2500	1.32
1DP 25D2	.002	2500	1.38
1DP 15T75	.00075	1500	.48
1DP 15D1	.001	1500	.54
1DP 15D12	.0012	1500	.66
1DP 15D15	.0015	1500	.78
1DP 15D18	.0018	1500	.87
1DP 15D2	.002	1500	.96

TV and Tubular Capacitors



"THE CUB"

Molded tubular special vacuum processed capacitors, dry assembly processed and sealed immediately after impregnation. 200 and 400 volt series impregnated with HT compound; 600 volt and up impregnated with oil (Dykanol "C"). Each unit tested at over two times its rated voltage. Extra strong copper-weld leads, permanently crimped and solder sealed. Temperature range: HT compound, −40° C. to +90° C. Dykanol "C", −55° C to +100° C.

200 VOLTS D.C.

C-D No.	Cap. Mfd.	Size, Inches Dia. x Lgth.	Net Each
CUB 2S2	.02	⅜x1	15c
CUB 2S47	.047	7⁄16x1¼	15c
CUB 2S5	.05	7⁄16x1¼	15c
CUB 2P1	.1	7⁄16x1¼	21c
CUB 2P15	.15	9⁄16x1½	21c
CUB 2P22	.22	11⁄16x1⅞	24c
CUB 2P25	.25	11⁄16x1⅞	24c
CUB 2P47	.47	11⁄16x1⅞	36c
CUB 2P5	.5	11⁄16x1⅞	36c
CUB 2W1	1.0	¾x2¼	54c

400 VOLTS D.C.

C-D No.	Cap. Mfd.	Size, Inches Dia. x Lgth.	Net Each
CUB 4S1	.01	⅜x1	15c
CUB 4S2	.02	7⁄16x1¼	15c
CUB 4S22	.022	7⁄16x1¼	15c
CUB 4S47	.047	7⁄16x1¼	18c
CUB 4S5	.05	7⁄16x1¼	18c
CUB 4S68	.068	9⁄16x1½	21c
CUB 4P1	.1	9⁄16x1½	21c
CUB 4P15	.15	11⁄16x1⅞	21c
CUB 4P22	.22	11⁄16x1⅞	24c
CUB 4P25	.25	11⁄16x1⅞	24c
CUB 4P47	.47	¾x2¼	36c
CUB 4P5	.5	¾x2¼	36c

600 VOLTS D.C.

C-D No.	Cap. Mfd.	Size, Inches Dia. x Lgth.	Net Each
CUB 6T1	.0001	⅜x1	15c
CUB 6T25	.00025	⅜x1	15c
CUB 6T4	.0004	⅜x1	15c
CUB 6T5	.0005	⅜x1	15c
CUB 6D1	.001	⅜x1	15c
CUB 6D15	.0015	⅜x1	15c
CUB 6D2	.002	⅜x1	15c
CUB 6D22	.0022	⅜x1	15c
CUB 6D33	.0033	⅜x1	15c
CUB 6D3	.003	⅜x1	15c
CUB 6D4	.004	⅜x1	15c
CUB 6D47	.0047	⅜x1	15c
CUB 6D5	.005	⅜x1	15c
CUB 6D6	.006	7⁄16x1¼	15c
CUB 6D68	.0068	7⁄16x1¼	18c
CUB 6S1	.01	7⁄16x1¼	18c
CUB 6S15	.015	7⁄16x1¼	18c
CUB 6S2	.02	7⁄16x1¼	18c
CUB 6S22	.022	7⁄16x1¼	18c
CUB 6S3	.03	7⁄16x1¼	21c
CUB 6S33	.033	9⁄16x1½	21c
CUB 6S4	.04	9⁄16x1½	21c
CUB 6S47	.047	9⁄16x1½	24c
CUB 6S5	.05	9⁄16x1½	24c
CUB 6S6	.06	11⁄16x1⅞	24c
CUB 6S68	.068	11⁄16x1⅞	24c
CUB 6P1	.1	11⁄16x1⅞	27c
CUB 6P2	.2	¾x2¼	33c
CUB 6P22	.22	¾x2¼	33c
CUB 6P25	.25	¾x2¼	33c

1600 VOLTS D.C.

C-D No.	Cap. Mfd.	Size, Inches Dia. x Lgth.	Net Each
CUB 16T5	.0005	7⁄16x1¼	39c
CUB 16D1	.001	7⁄16x1¼	39c
CUB 16D15	.0015	7⁄16x1¼	39c
CUB 16D2	.002	7⁄16x1¼	39c
CUB 16D22	.0022	7⁄16x1¼	39c
CUB 16D3	.003	7⁄16x1¼	39c
CUB 16D33	.0033	7⁄16x1¼	39c
CUB 16D4	.004	7⁄16x1¼	39c
CUB 16D47	.0047	7⁄16x1¼	39c
CUB 16D5	.005	7⁄16x1¼	39c
CUB 16D6	.006	9⁄16x1½	39c
CUB 16D68	.0068	9⁄16x1½	39c
CUB 16D7	.007	9⁄16x1½	39c
CUB 16D75	.0075	9⁄16x1½	39c
CUB 16D8	.008	9⁄16x1½	39c
CUB 16S1	.01	9⁄16x1½	42c
CUB 16S15	.015	9⁄16x1½	42c
CUB 16S2	.02	11⁄16x1⅞	42c
CUB 16S22	.022	11⁄16x1⅞	42c
CUB 16S3	.03	11⁄16x1⅞	42c
CUB 16S4	.04	¾x2¼	42c
CUB 16S5	.05	¾x2¼	42c

6000 VOLTS D.C.

C-D No.	Cap. Mfd.	Size, Inches Dia. x Lgth.	Net Each
CUB 60T5	.0005	9⁄16x1½	81c
CUB 60D1	.001	9⁄16x1½	81c
CUB 60D5	.005	11⁄16x1⅞	81c

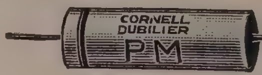
10,000 VOLTS D.C.

C-D No.	Cap. Mfd.	Size, Inches Dia. x Lgth.	Net Each
CUB 100T5	.0005	11⁄16x1⅞	90c

12,500 VOLTS D.C.

C-D No.	Cap. Mfd.	Size, Inches Dia. x Lgth.	Net Each
CUB 125T25	.00025	11⁄16x1⅞	$1.02

MOLDED MYLAR TUBULARS



C-D's new PM series is designed to meet need for a rugged, high-temperature molded unit. Fabricated with DuPont "Mylar", a dielectric which maintains excellent characteristics at temperatures up to +130° C. Full voltage applied over range −55° C. to +100° C. and to 130° C. voltage is derated to 75%.

400 VOLTS D.C.W.

C-D No.	Cap. Mfd.	Size, Inches Dia. x Lgth.	Net Each
PM 4S1	.010	5⁄16x1	$1.08
PM 4S15	.015	⅜x1¼	1.08
PM 4S22	.022	7⁄16x1¼	1.14
PM 4S33	.033	7⁄16x1¼	1.14
PM 4S47	.047	7⁄16x1¼	1.20
PM 4S56	.056	½x1½	1.26
PM 4S68	.068	½x1½	1.26
PM 4P1	.10	½x1½	1.38
PM 4P15	.15	9⁄16x1 9⁄16	1.44
PM 4P22	.22	⅝x1⅞	1.50
PM 4P33	.33	11⁄16x1 15⁄16	1.62
PM 4P47	.47	¾x2¼	1.74
PM 4P68	.68	1 x2⅛	1.98
PM 4W1	1.00	1 x2⅛	2.28

600 VOLTS D.C.W.

C-D No.	Cap. Mfd.	Size, Inches Dia. x Lgth.	Net Each
PM 6T5	.0005	5⁄16x1	$1.08
PM 6D1	.0010	5⁄16x1	1.08
PM 6D15	.0015	5⁄16x1	1.08
PM 6D22	.0022	5⁄16x1	1.08
PM 6D33	.0033	5⁄16x1	1.08
PM 6D47	.0047	⅜x1¼	1.08
PM 6D68	.0068	⅜x1¼	1.08
PM 6S1	.010	⅜x1¼	1.14
PM 6S15	.015	⅜x1¼	1.14
PM 6S22	.022	7⁄16x1¼	1.20
PM 6S33	.033	½x1½	1.26
PM 6S47	.047	½x1½	1.38
PM 6S68	.068	9⁄16 x1 9⁄16	1.44
PM 6P1	.10	⅝x1⅞	1.50
PM 6P15	.15	11⁄16x1 15⁄16	1.62
PM 6P22	.22	¾x2¼	1.74
PM 6P33	.33	1 x2⅛	1.98
PM 6P47	.47	1 x2⅛	2.28

1600 VOLTS D.C.W.

C-D No.	Cap. Mfd.	Size, Inches Dia. x Lgth.	Net Each
PM 16D1	.0010	⅜x1¼	$1.14
PM 16D15	.0015	⅜x1¼	1.14
PM 16D22	.0022	⅜x1¼	1.14
PM 16D33	.0033	⅜x1¼	1.20
PM 16D47	.0047	7⁄16x1¼	1.26
PM 16D68	.0068	½x1½	1.26
PM 16S1	.010	½x1½	1.32
PM 16S15	.015	½x1½	1.38
PM 16S22	.022	⅝x1⅞	1.44
PM 16S33	.033	⅝x1⅞	1.50
PM 16S47	.047	11⁄16x1 15⁄16	1.62
PM 16S68	,068	¾x2¼	1.80
PM 16P1	.10	1 x2⅛	2.10

"MINIROC" MYLAR TUBULARS

High quality tubular units in non-metallic steatite cases. High insulation resistance and full protection against moisture. Operating temperatures −55° to +130° C with no voltage derating required. Mylar Polyester film dielectric, Polykane ends.

C-D No.	Cap. Mfd.	Size, Inches Dia. x Lgth.	Net Each
STM 1D1	.001	.170x ⅝	$1.02
STM 1D15	.0015	.170x ⅝	1.02
STM 1D22	.0022	.170x ⅝	1.02
STM 1D47	.0047	.170x ⅝	1.02
STM 1D68	.0068	.170x ⅝	1.02
STM 1S1	.010	.170x ⅝	1.02
STM 1S15	.015	.190x ¾	1.02
STM 1S22	.022	.190x1 1⁄16	1.02
STM 1S33	.033	¼x1 1⁄16	1.08
STM 1S47	.047	¼x1 1⁄16	1.08
STM 1S68	.068	5⁄16x1 1⁄16	1.14
STM 1P1	.10	5⁄16x1 1⁄16	1.26

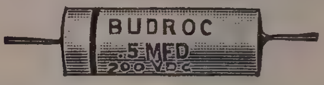
400 VOLTS D.C.W.

C-D No.	Cap. Mfd.	Size, Inches Dia. x Lgth.	Net Each
STM 4D1	.001	.170x ¾	1.08
STM 4D15	.0015	.170x ¾	1.08
STM 4D22	.0022	.190x ¾	1.08
STM 4D33	.0033	.170x1 1⁄16	1.08
STM 4D47	.0047	.170x1 1⁄16	1.08
STM 4D68	.0068	.190x1 1⁄16	1.08
STM 4S1	.01	¼x1 1⁄16	1.08
STM 4S15	.015	¼x1 1⁄16	1.08
STM 4S22	.022	5⁄16x1 1⁄16	1.14
STM 4S33	.033	⅜x1 1⁄16	1.14
STM 4S47	.047	⅜x1¼	1.20
STM 4S68	.068	7⁄16x1¼	1.26
STM 4P1	.10	½x1¼	1.38

600 VOLTS D.C.W.

C-D No.	Cap. Mfd.	Size, Inches Dia. x Lgth.	Net Each
STM 6D1	.001	.170x ¾	$1.08
STM 6D15	.0015	.170x ¾	1.08
STM 6D22	.0022	.190x1 1⁄16	1.08
STM 6D33	.0033	.190x1 1⁄16	1.08
STM 6D47	.0047	¼x1 1⁄16	1.08

"BUDROC" PAPER CAPACITORS



Steatite-cased tubular paper capacitors made with non-inductive paper and extended foil elements housed in the finest grade ceramic tubes with Polykane end-seals. Temperature range: up to and including 400 VDCW are impregnated with HT compound (−40° C. to +90° C.). Units above 400 VDCW are impregnated with C-D Vikane (−55° C. to +100° C.).

200 VOLTS D.C.W.

C-D No.	Cap. Mfd.	Size, Inches Dia. x Lgth.	Net Each
ST 2S2	.02	⅜x1¼	15c
ST 2S5	.05	⅜x1¼	15c
ST 2P1	.10	7⁄16x1¼	21c
ST 2P25	.25	11⁄16x1⅞	24c
ST 2P5	.50	11⁄16x1⅞	36c
ST 2W1	1.00	1 x2¼	54c

400 VOLTS D.C.W.

C-D No.	Cap. Mfd.	Size, Inches Dia. x Lgth.	Net Each
ST 4S1	.01	5⁄16x1	15c
ST 4S2	.02	⅜x1¼	15c
ST 4S22	.022	⅜x1¼	15c
ST 4S47	.047	7⁄16x1¼	18c
ST 4S5	.05	7⁄16x1¼	18c
ST 4S68	.068	½x1½	21c
ST 4P1	.10	½x1½	21c
ST 4P15	.15	11⁄16x1⅞	21c
ST 4P22	.22	11⁄16x1⅞	24c
ST 4P25	.25	11⁄16x1⅞	24c
ST 4P5	.50	13⁄16x2¼	36c
ST 4W1	1.00	1 x2⅞	54c

600 VOLTS D.C.W.

C-D No.	Cap. Mfd.	Size, Inches Dia. x Lgth.	Net Each
ST 6T5	.0005	5⁄16x1	15c
ST 6D1	.001	5⁄16x1	15c
ST 6D15	.0015	5⁄16x1	15c
ST 6D2	.002	5⁄16x1	15c
ST 6D22	.0022	5⁄16x1	15c
ST 6D3	.003	5⁄16x1	15c
ST 6D33	.0033	5⁄16x1	15c
ST 6D4	.004	5⁄16x1	15c
ST 6D47	.0047	5⁄16x1	15c
ST 6D5	.005	⅜x1¼	15c
ST 6D68	.0068	⅜x1¼	18c
ST 6S1	.01	⅜x1¼	18c
ST 6S15	.015	⅜x1¼	18c
ST 6S2	.02	7⁄16x1¼	18c
ST 6S22	.022	7⁄16x1¼	18c
ST 6S25	.025	7⁄16x1¼	21c
ST 6S3	.03	7⁄16x1¼	21c
ST 6S4	.04	½x1½	21c
ST 6S47	.047	½x1½	24c
ST 6S5	.05	½x1½	24c
ST 6S68	.068	11⁄16x1⅞	27c
ST 6P1	.10	11⁄16x1⅞	27c
ST 6P25	.25	13⁄16x2¼	33c
ST 6P5	.50	1 x2⅞	48c

1600 VOLTS D.C.W.

C-D No.	Cap. Mfd.	Size, Inches Dia. x Lgth.	Net Each
ST 16D1	.001	⅜x1¼	39c
ST 16D15	.0015	⅜x1¼	39c
ST 16D2	.002	⅜x1¼	39c
ST 16D22	.0022	⅜x1¼	39c
ST 16D3	.003	7⁄16x1¼	39c
ST 16D33	.0033	7⁄16x1¼	39c
ST 16D4	.004	7⁄16x1¼	39c
ST 16D47	.0047	7⁄16x1¼	39c
ST 16D5	.005	7⁄16x1¼	39c
ST 15D56	.0056	7⁄16x1¼	39c
ST 16D68	.0068	½x1½	39c
ST 16D82	.0082	½x1½	39c
ST 16S1	.01	½x1½	42c
ST 16S15	.015	½x1½	42c
ST 16S2	.02	11⁄16x1⅞	42c
ST 16S25	.025	11⁄16x1⅞	42c
ST 16S3	.03	11⁄16x1⅞	42c
ST 16S4	.04	13⁄16x2¼	42c

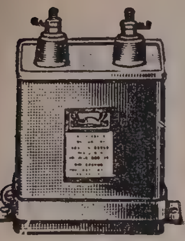
600 VOLTS D.C.W (CONT.)

C-D No.	Cap. Mfd.	Size, Inches Dia. x Lgth.	Net Each
STM 6D68	.0068	¼x1 1⁄16	1.08
STM 6S1	.01	5⁄16x1 1⁄16	1.14
STM 6S15	.015	5⁄16x1 1⁄16	1.14
STM 6S22	.022	⅜x1 1⁄16	1.20
STM 6S33	.033	⅜x1¼	1.26
STM 6S47	.047	7⁄16x1¼	1.38
STM 6S68	.068	½x1½	1.44
STM 6P1	.10	9⁄16x1½	1.50

Special Purpose Capacitors

CORNELL-DUBILIER HIGH VOLTAGE CAPACITORS

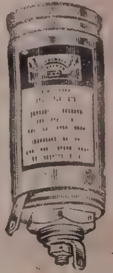
DYKANOL TRANSMITTING CAPACITORS



Type T Dykanol Transmitting Capacitors are dependable units for use in all amateur, broadcast, and commercial equipment. Provided with well insulated terminals. Thoroughly impregnated and filled with Dykanol "G," a non-inflammable, fireproof, non-oxidizable liquid compound. Light weight, small size, low dielectric stress at higher operating temperatures. Type T comes with any of three mountings—designate type when ordering. Type **T** is without bracket or lug of any kind. Type **TJH** is equipped with spade lugs, Type **TJL** has mounting clamp, and Type **TJU** has mounting strap. Average shipping weight 5 lbs. *Type **TJU** not furnished in these sizes. †Types **TJL** and **TJH** furnished with 2 mounting holes or spade lugs 3⅜" apart. All others, single mtg. hole or spade lug centered on each brkt.

C. D. No.	Cap. Mfd.	Dimen., Ins. H. x L. x W.	Net Each
600 V. D.C. WORKING			
T 6005	.5	2⅛ x 1 13/16 x 1 1/16	$2.82
T 6010	1	2⅛ x 1 13/16 x 1 1/16	3.48
T 6020	2	2⅞ x 1 13/16 x 1 1/16	4.29
T 6030	3	3⅞ x 1 13/16 x 1 1/16	4.95
T 6040	4	3⅜ x 2½ x 1 3/16	5.46
T 6050	5	4¾ x 1 13/16 x 1 1/16	6.27
T 6060	6	4⅝ x 2½ x 1 3/16	6.78
T 6080	8	3 13/16 x 3¾ x 1¼	8.10
T 6100	10	4⅝ x 3¾ x 1¼	9.09
1000 V. D.C. WORKING			
T 10001	.1	2 x 1 13/16 x 1 1/16	2.49
T 100025	.25	2⅛ x 1 13/16 x 1 1/16	2.82
T 10005	.5	2⅛ x 1 13/16 x 1 1/16	2.97
T 10010	1	2⅛ x 1 13/16 x 1 1/16	3.81
T 10020	2	4 x 1 13/16 x 1 1/16	4.95
T 10030	3	3½ x 2½ x 1 3/16	5.79
T 10040	4	4⅝ x 2½ x 1 3/16	6.27
T 10050	5	3 13/16 x 3¾ x 1¼	7.59
T 10060	6	4¾ x 3¾ x 1¼	8.43
T 10080	8	4¾ x 3¾ x 1¼	9.09
T 10100	10	4⅝ x 3¾ x 1¾	10.08
T 10120	12	3 13/16 x 3¾ x 2¼	10.89
T 10150	15	4¾ x 3¾ x 2½	12.06
1500 V. D.C. WORKING			
T 15005	.5	2⅞ x 1 13/16 x 1 1/16	3.81
T 15010	1	4 x 1 13/16 x 1 1/16	4.47
T 15020	2	4⅛ x 2½ x 1 3/16	6.12
T 15030	3	4¾ x 2½ x 1 3/16	7.44
T 15040	4	4⅝ x 3¾ x 1¼	8.43
T 15050	5	4¾ x 3¾ x 1¾	9.09
T 15060	6	4¾ x 3¾ x 1¾	10.23
T 15080	8	4¾ x 3¾ x 2½	12.54
T 15100*	10	4¾ x 3¾ x 3 3/16	15.03
T 15120*	12	4¾ x 3¾ x 3 3/16	16.35
T 15150*†	15	4¾ x 3¾ x 4 9/16	18.00
2000 V. D.C. WORKING			
T 20001	.1	2⅛ x 1 13/16 x 1 1/16	$3.96
T 200025	.25	2⅛ x 1 13/16 x 1 1/16	4.29
T 20005	.5	2⅞ x 1 13/16 x 1 1/16	4.47
T 20010	1	3⅜ x 2½ x 1 3/16	5.46
2000 V. D.C. WORKING (CONT.)			
T 20020	2	4 x 3¾ x 1¼	$6.45
T 20030	3	4¾ x 3¾ x 1¼	7.92
T 20040	4	3 13/16 x 3¾ x 2¼	9.09
T 20050	5	4¾ x 3¾ x 2¼	10.08
T 20060*	6	4¾ x 3¾ x 3 3/16	12.06
T 20080*	8	4¾ x 3¾ x 3 3/16	15.03
T 20100*†	10	4¾ x 3¾ x 4 9/16	18.33
T 20120*†	12	5⅜ x 3¾ x 4 9/16	19.98
2500 V. D.C. WORKING			
T 25005	.5	3½ x 3¾ x 1¼	6.93
T 25010	1	3¼ x 3¾ x 1¾	7.92
T 25020	2	4¾ x 3¾ x 1¾	12.87
T 25040*†	4	4 x 3¾ x 4 9/16	18.00
T 25100A*†	10	6⅜ x 3¾ x 4 9/16	45.06
3000 V. D.C. WORKING			
T 30001	.1	2 x 2½ x 1 3/16	8.43
T 300025	.25	2½ x 2½ x 1 3/16	8.91
T 30005	.5	3⅞ x 2½ x 1 3/16	10.08
T 30010	1	3 13/16 x 3¾ x 2¼	12.06
T 30020*	2	4⅛ x 3¾ x 3 3/16	15.03
T 30040*†	4	4¾ x 3¾ x 4 9/16	22.11
4000 V. D.C. WORKING			
T 40001	.1	2¾ x 3¾ x 2¼	10.80
T 400025	.25	2¾ x 3¾ x 2¼	12.00
T 40005	.5	4 x 3¾ x 2¼	13.80
T 40010	1	5 x 3¾ x 2¼	17.40
T 40020*†	2	5 x 3¾ x 4 9/16	23.40
T 40040A*†	4	8 x 3¾ x 4 9/16	40.11
5000 V. D.C. WORKING			
T 50005	.5	4¼ x 3¾ x 2¼	15.00
T 50010*†	1	4¼ x 3¾ x 4 9/16	20.40
T 50020*†	2	6 x 3¾ x 4 9/16	31.20
6000 V. D.C. WORKING			
T 60001	.1	2¾ x 3¾ x 2¼	16.20
T 60010A*†	1	8 x 3¾ x 4 9/16	29.40

DYKANOL THREADED NECK CAPACITORS



Type TLA—Dynakol Threaded Neck Capacitors are thoroughly impregnated and filled with Dynakol "G", a non-flammable, fireproof, non-oxidizing liquid compound which provides a high factor of safety and an exceptionally long life. **Capacitor Sizes: A,** 2⅞" x 1½"; **B,** 4½" x 1½". **Temperature Range:** −55° C to 85° C. **Standard Tolerance:** +20%, −10%.

C-D No.	Cap., Mfd.	D.C.W. Volts	Size †	Net Each
TLA 6020	2	600	A	$2.76
TLA 6040	4	600	B	3.78
TLA 10010	1	1000	A	2.52
TLA 10020	2	1000	B	3.27
TLA 15005	.5	1500	A	3.00
TLA 15010	1	1500	B	3.27

TYPE TNAD CAPACITORS

These capacitors same as TLA except that they contain two solder lug terminals insulated from case.

C-D No.	Cap., Mfd.	D.C.W. Volts	Size †	Net Each
TNAD 6020	2	600	A	$3.24
TNAD 6040	4	600	B	4.26
TNAD 10010	1	1000	A	3.00
TNAD 10020	2	1000	B	3.78
TNAD 15005	.5	1500	A	3.51
TNAD 15010	1	1500	B	3.78

†**Size:** A—2⅞" x 1½"; B—4½" x 1½".

METAL CASED DYKANOL PAPER CAPACITORS

Type TMJ-4P is a non-magnetic metal-cased, ungrounded section, tubular paper capacitor, the body of which is covered by a non-hygroscopic plastic insulating tube. Also available with mounting strap on request. Impregnated with Dykanol "G" (oil) and meets MIL-C-25A temp. char. E. **Temperature Range:** −55° C. to +85° C. Standard tolerance, ±20%.

C-D No.	Cap., Mfd.	Dimen. Dia. x L.	Net Each
600 V.D.C.W.			
TMJ 6D3-4P	.003	½ x 1 5/16	$0.78
TMJ 6D6-4P	.006	½ x 1 5/16	.78
TMJ 6S1-4P	.01	½ x 1 5/16	.78
TMJ 6S2-4P	.02	½ x 1 13/16	.87
TMJ 6S5-4P	.05	11/16 x 1 11/16	.93
TMJ 6P1-4P	.10	11/16 x 2 1/16	1.05
TMJ 6P25-4P	.25	1 1/16 x 2 5/16	1.44
TMJ 6P5-4P	.50	1 1/16 x 2 13/16	1.83
1000 V.D.C.W.			
TMJ 10D3-4P	.003	11/16 x 1 5/16	$0.93
TMJ 10D6-4P	.006	11/16 x 1 5/16	.93
TMJ 10S1-4P	.01	11/16 x 1 5/16	.93
TMJ 10S2-4P	.02	11/16 x 1 11/16	1.02
TMJ 10S5-4P	.05	13/16 x 1 13/16	1.08
TMJ 10P1-4P	.10	1 1/16 x 2 1/16	1.23
TMJ 10P25-4P	.25	1 1/16 x 2 13/16	1.62
1600 V.D.C.W.			
TMJ 16D3-4P	.003	1 1/16 x 1 7/16	$1.02
TMJ 16D6-4P	.006	1 1/16 x 1 7/16	1.02
TMJ 16S1-4P	.01	1 1/16 x 1 7/16	1.02
TMJ 16S2-4P	.02	1 1/16 x 1 13/16	1.08
TMJ 16S5-4P	.05	1 1/16 x 2 1/16	1.17
TMJ 16P1-4P	.10	1 1/16 x 2 5/16	1.53

PHOTOFLASH CAPACITORS

C. D. No.	Cap. Mfd. x V. D. C.	Size, In. Dia. x Lg.	Net Each
UPE 100T	100*x450	1 17/32 x 3¼	$ 3.30
FB 10063	200x450	2 1/16 x 4½	4.11
FW 10005	200x500	2 1/16 x 4⅜	6.30
FW 10007	300x450	2 1/16 x 4⅜	6.30
FWS 10000	300x450	2 1/16 x 4⅜	6.90
FA 10300	400x450	2 1/16 x 4½	10.77
FWSN	525x450	2 1/16 x 4⅜	13.56

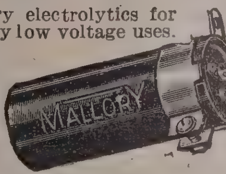
*Two 50 mfd. sections.

LOW VOLTAGE TYPES

BRE 10001	40x150	¾ x 1 7/16	$ 0.81
FB 10077	100x30	1 x 2 11/16	2.01
BRH 10062	125x25	⅝ x 1 15/16	.81
BRH 10067	150x50	¾ x 1 11/16	.81
BRH 2525	250x25	⅞ x 1⅞	1.02

MALLORY DRY ELECTROLYTICS, RESISTANCE KITS

TYPE HC-NP LOW VOLTAGE-HIGH CAPACITY CAPACITORS



Plastic case dry electrolytics for all high capacity low voltage uses. Type HC are for filtering dry disc rectifiers, electric fence controls, talking picture equipment and similar applications. Type NP are non-polarized units for use where polarity may be applied in either direction but are not suitable for continuous AC applications. Useful in welding and control equipment as a stored energy device. Two solder lug terminals at one end. Supplied with Type VR bracket for vertical mounting but design permits horizontal mounting with protector and cap (sold separately). Average shipping weight 10 oz.

TYPE HC POLARIZED TYPE

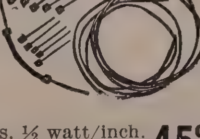
Mall. No.	Cap. Mfd.	D.C. W. V.	Size, In. Dia. x Lgt.	Net Each
1020	2000	10	1 7/16 x 3⅝	$2.37
1040	4000	10	1 13/16 x 3⅜	2.85
10100	10000	10	2 1/16 x 4⅜	4.95
1060A*	6000	10	1½ x 4⅛	3.33
1520	2000	15	1 7/16 x 3⅜	2.82
1540	4000	15	1 13/16 x 3⅜	3.30
1560	6000	15	1 13/16 x 4⅜	3.78
2060	6000	20	2 1/16 x 4⅜	5.19
2510	1000	15	1 7/16 x 3⅜	2.91
2520	2000	25	1 13/16 x 3⅜	3.45
2540	4000	25	1 13/16 x 4⅜	4.05
4040	4000	40	2 1/16 x 4⅜	5.70
5005	500	50	1 7/16 x 3⅜	2.34
5010	1000	50	1 13/16 x 3⅜	3.84
5020	2000	50	1 13/16 x 4⅜	5.25
15010	1000	150	2 1/16 x 4⅜	6.30
20005	500	200	2 1/16 x 4⅜	5.88
TYPE HC POLARIZED TYPE (Cont.)				
45003†	300	450	2 1/16 x 4⅜	6.30
45052#	325	450	2 1/16 x 4⅜	13.50

TYPE NP NON-POLARIZED TYPE

1225	200	125	1 3/16 x 4⅜	$3.00
1235	300	125	2 1/16 x 4⅜	3.45
1255	500	125	2 1/16 x 4⅜	4.50
3003	15	300	1 7/16 x 3⅜	2.25
3014	100	300	1 13/16 x 4⅜	4.05
3025	200	300	2 1/16 x 4⅜	5.70
4505	50	450	1 13/16 x 3⅜	4.50
4510	100	450	2 1/16 x 4⅜	6.96

*In aluminum can. †For photoflash applications. #Prefix letters FF; for photoflash applications.

YARD-OHM RESISTANCE KITS



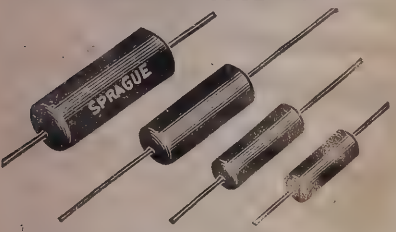
All necessary materials for construction of flexible resistors of wide range. Each consists of 1 yd. resistance wire, 1 yd. insulated braid, 24 spiral leads.

Dissipation, all types, ½ watt/inch. Yard-Ohm Kit, any value. Net Ea. **45c**

Mall. No.	Ohms/ Inch	Amps.	Mall. No.	Ohms/ Inch	Amps.
YO-1	1	.707	YO-50	50	.100
YO-5	5	.315	YO-100	100	.071
YO-10	10	.223	YO-250	250	.044
YO-25	25	.141	YO-500	500	.031

Paper Capacitors by SPRAGUE

TELECAP® BLACK BEAUTY® MOLDED TUBULARS



Premium quality at no extra cost.

- Made under exclusive "Dry Process" just like costly metal-encased oil units.
- Molded in tough bakelite phenolic.
- Extremely high insulation resistance.
- Will withstand severe heat, moisture, shock.
- Non-flammable case.
- Only Telecaps are oil-impregnated in ratings from 600 to 12,500 WVDC.
- Rated for 85° C (185° F) operation.

200 WVDC

Cat. No.	Mfd.	D. x L. In.	Net
2TM-S2	.02	3/8 x 1 1/4	$0.15
2TM-S47	.047	3/8 x 1 1/4	.15
2TM-S5	.05	3/8 x 1 1/4	.15
2TM-P1	.1	7/16 x 1 1/4	.21
2TM-P15	.15	1/2 x 1 1/2	.21
2TM-P22	.22	5/8 x 1 7/8	.24
2TM-P25	.25	5/8 x 1 7/8	.24
2TM-P47	.47	5/8 x 1 7/8	.36
2TM-P5	.5	5/8 x 1 7/8	.36
2TM-M1	1.0	3/4 x 2 1/4	.54

400 WVDC

4TM-S1	.01	5/16 x 1	.15
4TM-S2	.02	3/8 x 1 1/4	.15
4TM-S22	.022	3/8 x 1 1/4	.15
4TM-S47	.047	7/16 x 1 1/4	.18
4TM-S5	.05	7/16 x 1 1/4	.18
4TM-S68	.068	1/2 x 1 1/2	.21
4TM-P1	.1	1/2 x 1 1/2	.21
4TM-P15	.15	5/8 x 1 7/8	.35
4TM-P22	.22	5/8 x 1 7/8	.24
4TM-P25	.25	5/8 x 1 7/8	.24
4TM-P5	.5	3/4 x 2 1/4	.36

600 WVDC

6TM-T1	.0001	5/16 x 1	.15
6TM-T25	.00025	5/16 x 1	.15
6TM-T4	.0004	5/16 x 1	.15
6TM-T5	.0005	5/16 x 1	.15
6TM-D1	.001	5/16 x 1	.15
6TM-D15	.0015	5/16 x 1	.15
6TM-D2	.002	5/16 x 1	.15
6TM-D22	.0022	5/16 x 1	.15
6TM-D3	.003	5/16 x 1	.15
6TM-D4	.004	5/16 x 1	.15
6TM-D47	.0047	5/16 x 1	.15
6TM-D5	.005	3/8 x 1	.15
6TM-D6	.006	3/8 x 1 1/4	.15
6TM-D68	.0068	3/8 x 1 1/4	.18
6TM-S1	.01	3/8 x 1 1/4	.18
6TM-S15	.015	3/8 x 1 1/4	.18
6TM-S2	.02	7/16 x 1 1/4	.18
6TM-S22	.022	7/16 x 1 1/4	.18
6TM-S3	.03	7/16 x 1 1/4	.21
6TM-S4	.04	1/2 x 1 1/2	.21
6TM-S47	.047	1/2 x 1 1/2	.24
6TM-S5	.05	1/2 x 1 1/2	.24
6TM-S6	.06	5/8 x 1 7/8	.24
6TM-P1	.1	5/8 x 1 7/8	.27
6TM-P15	.15	3/4 x 2 1/4	.30
6TM-P25	.25	3/4 x 2 1/4	.33
6TM-P5	.5	1 x 2 3/8	.48
*TC-10	1.0	1 x 2 5/8	.75

1000 WVDC

Cat. No.	Mfd.	D. x L. in.	Net
10TM-T5	.0005	5/16 x 1	.30
10TM-D1	.001	5/16 x 1	.30
10TM-D15	.0015	5/16 x 1	.30
10TM-D2	.002	5/16 x 1	.30
10TM-D22	.0022	5/16 x 1	.30
10TM-D3	.003	3/8 x 1 1/4	.30
10TM-D4	.004	3/8 x 1 1/4	.30
10TM-D47	.0047	3/8 x 1 1/4	.30
10TM-D5	.005	3/8 x 1 1/4	.30
10TM-D68	.0068	3/8 x 1 1/4	.30
10TM-S1	.01	3/8 x 1 1/4	.30
10TM-S15	.015	7/16 x 1 1/4	.30
10TM-S2	.02	1/2 x 1 1/2	.30
10TM-S22	.022	1/2 x 1 1/2	.30
10TM-S3	.03	1/2 x 1 1/2	.30
10TM-S35	.035	1/2 x 1 1/2	.30
10TM-S47	.047	5/8 x 1 7/8	.36
10TM-S5	.05	5/8 x 1 7/8	.36
10TM-S68	.068	5/8 x 1 7/8	.39

*Supplied in waxed cardboard units pending completion of molds.

1600 WVDC (BUFFER CAPACITORS)

MB-T5	.0005	3/8 x 1 1/4	.39
MB-D1	.001	3/8 x 1 1/4	.39
MB-D15	.0015	3/8 x 1 1/4	.39
MB-D2	.002	3/8 x 1 1/4	.39
MB-D22	.0022	3/8 x 1 1/4	.39
MB-D3	.003	3/8 x 1 1/4	.39
MB-D33	.0033	7/16 x 1 1/4	.39
MB-D4	.004	3/8 x 1 1/4	.39
MB-D47	.0047	7/16 x 1 1/4	.39
MB-D5	.005	7/16 x 1 1/4	.39
MB-D6	.006	7/16 x 1 1/4	.39
MB-D68	.0068	1/2 x 1 1/2	.39
MB-D7	.007	7/16 x 1 1/4	.39
MB-D75	.0075	7/16 x 1 1/4	.39
MB-D8	.008	1/2 x 1 1/2	.39
MB-S1	.01	1/2 x 1 1/2	.42
MB-S15	.015	1/2 x 1 1/2	.42
MB-S2	.02	5/8 x 1 7/8	.42
MB-S22	.022	5/8 x 1 7/8	.42
MB-S3	.03	5/8 x 1 7/8	.42
MB-S4	.04	3/4 x 2 1/4	.42
*TR-15	.05	3/4 x 2 1/8	.42
*TR-215	2 x .015	3/4 x 2	.48

6000 WVDC

TVM-356	.0005	1/2 x 1 1/2	.81
TVM-216	.001	1/2 x 1 1/2	.81
TVM-256	.005	5/8 x 1 7/8	.81

10,000 WVDC

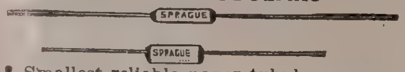
TVM-351	.0005	5/8 x 1 7/8	.90

12,500 WVDC

12TVM-325	.00025	5/8 x 1 7/8	1.02

*Supplied in waxed cardboard units pending completion of molds.

MIDGET® TUBULARS



- Smallest reliable paper tubular.
- Outstanding humidity performance.
- Will fit tight spots in pocket and auto radios.
- Rated for 85° C (185° F) operation.

100 WVDC

Cat. No.	Mfd.	D. x L. In.	Net
68P19	.25	15/32 x 1 1/8	$0.42
68P20	.5	5/8 x 1 1/8	.48

200 WVDC

68P11	.005	1/4 x 11/16	.21
68P12	.006	1/4 x 11/16	.21
68P14	.01	9/32 x 11/16	.24
68P15	.02	9/32 x 13/16	.27
68P16	.05	5/16 x 1	.30
68P17	.1	13/32 x 1	.36
68P18	.2	15/32 x 1 1/8	.39
68P24	.25	17/32 x 1 1/8	.42
68P25	.5	5/8 x 1 3/8	.48

400 WVDC

68P1	.001	1/4 x 11/16	.21
68P3	.003	1/4 x 11/16	.21
68P4	.004	1/4 x 11/16	.21
68P5	.005	1/4 x 13/16	.21
68P6	.006	1/4 x 13/16	.21
68P8	.01	5/16 x 13/16	.24
68P9	.02	5/16 x 1	.27
68P10	.05	13/32 x 1	.30
68P21	.1	15/32 x 1 1/8	.39
68P38	.2	5/8 x 1 1/8	.42
68P22	.25	5/8 x 1 3/8	.45
68P23	.5	5/8 x 2 5/16	.51

600 WVDC

68P26	.001	1/4 x 11/16	.21
68P27	.002	1/4 x 11/16	.21
68P28	.003	9/32 x 11/16	.21
68P29	.004	9/32 x 13/16	.21
68P30	.005	9/32 x 13/16	.24
68P31	.006	5/16 x 13/16	.24
68P32	.008	5/16 x 1	.24
68P33	.01	5/16 x 1	.27
68P34	.02	11/32 x 1	.30
68P35	.05	15/32 x 1 1/8	.33
68P36	.1	5/8 x 1 1/8	.42
68P40	.2	5/8 x 1 11/16	.48
68P37	.25	5/8 x 2	.48

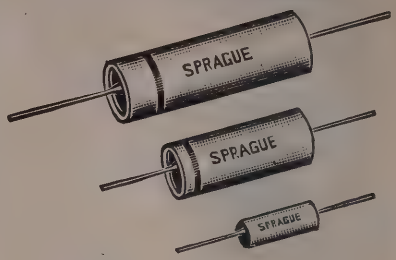
RESONANT CAPACITORS

SPRAGUE
RESONANT CAPACITOR

- Stop self-oscillation, permitting "on-the-nose" alignment.
- By-pass unwanted I-F signals.
- Stabilize any AC-DC "Squealer" receiver.

Cat. No.	Mfd.	WVDC	D. x L. In.	Net
72P51	.05	400	1/2 x 1 1/8	$0.30
72P52	.1	400	1/2 x 1 5/8	.39
72P53	.2	400	9/16 x 1 7/8	.42

METAL CLAD TUBULARS



- Hermetically sealed.
- Non-inductively wound.
- Oil-impregnated, oil-filled.
- Insulating cardboard sleeve.

600 WVDC

Cat. No.	Mfd.	D. x L. In.	Net
PX-316	.0001	1/2 x 1 1/4	$0.57
PX-3256	.00025	1/2 x 1 1/4	.57
PX-356	.0005	1/2 x 1 1/4	.57
PX-216	.001	1/2 x 1 1/4	.57
PX-226	.002	1/2 x 1 1/4	.57
PX-236	.003	1/2 x 1 1/4	.57
PX-246	.004	1/2 x 1 1/4	.57
PX-256	.005	1/2 x 1 1/4	.57
PX-266	.006	1/2 x 1 1/4	.57
PX-276	.007	1/2 x 1 1/4	.57
PX-286	.008	1/2 x 1 1/4	.57
PX-296	.009	1/2 x 1 1/4	.57
PX-116	.01	1/2 x 1 1/4	.57
PX-126	.02	1/2 x 1 3/4	.63
PX-136	.03	5/8 x 1 5/8	.66
PX-146	.04	5/8 x 1 5/8	.66
PX-156	.05	5/8 x 1 5/8	.66
PX-166	.06	11/16 x 1 5/8	.72
PX-186	.08	11/16 x 1 7/8	.72
PX-16	.1	11/16 x 1 7/8	.75
PX-26	.25	13/16 x 2 13/16	1.02
PX-56	.5	1 1/16 x 2 13/16	1.32
PX-106	1.0	1 1/16 x 3 11/16	1.80

1000 WVDC

PX-311	.0001	11/16 x 1 1/4	.66
PX-3251	.00025	11/16 x 1 1/4	.66
PX-351	.0005	11/16 x 1 1/4	.66
PX-211	.001	11/16 x 1 1/4	.66
PX-221	.002	11/16 x 1 1/4	.66
PX-231	.003	11/16 x 1 1/4	.66
PX-241	.004	11/16 x 1 1/4	.66
PX-251	.005	11/16 x 1 1/4	.66
PX-261	.006	11/16 x 1 1/4	.66
PX-271	.007	11/16 x 1 1/4	.66
PX-281	.008	11/16 x 1 1/4	.66
PX-291	.009	11/16 x 1 1/4	.66
PX-111	.01	11/16 x 1 1/4	.66
PX-121	.02	5/8 x 1 5/8	.72
PX-131	.03	11/16 x 1 3/4	.72
PX-141	.04	11/16 x 1 3/4	.72
PX-151	.05	11/16 x 1 3/4	.78
PX-161	.06	1 1/16 x 2	.81
PX-181	.08	1 1/16 x 2	.84
PX-11	.1	1 1/16 x 2	.90
PX-21	.25	1 1/16 x 2 13/16	1.20
PX-51	.5	1 1/16 x 3 11/16	1.71

1500 WVDC

PX-2215	.002	5/8 x 1 1/4	.72
PX-2515	.005	5/8 x 1 1/4	.72
PX-1115	.01	11/16 x 1 5/8	.72
PX-1215	.02	11/16 x 1 5/8	.78

2000 WVDC

PX-352	.0005	13/16 x 1 3/8	.75
PX-212	.001	13/16 x 1 3/8	.75
PX-252	.005	13/16 x 1 3/4	.75
PX-262	.006	13/16 x 1 3/4	.75
PX-2752	.0075	13/16 x 1 3/4	.75
PX-112	.01	13/16 x 1 3/4	.75
PX-122	.02	13/16 x 2 1/8	.81
PX-132	.03	13/16 x 2 1/8	.84
PX-142	.04	13/16 x 2 1/2	.84
PX-152	.05	13/16 x 2 1/2	.87

HASH CAPACITORS FOR AUTOMOBILE RADIOS

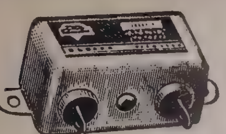
- HC-1—Braided leads for low R-F resistance.
- HC-2—Radial side leads.
- HC-3—Flat strap leads for minimum R-F impedance.

Cat. No.	Mfd.	WVDC	Size Inches	Net
HC-1	.5	120	7/16 x 3/4 x 2*	$0.54
HC-2	.5	120	5/16 x 3/4 x 2*	.54
HC-3	.5	120	3/4 x 1 3/8†	.66

*Oval tube.
†Round tube.

Paper Capacitors by SPRAGUE

BATHTUB CAPACITORS



- Hermetically sealed.
- Oil-impregnated, oil-filled.
- Drawn metal can.
- Built-on mounting flanges.

400 WVDC

Cat. No.	Mfd.	Size*	Net
BP-1	.1	A	$1.32
BP-25	.25	A	1.50
BP-50	.5	B	1.59
BP-10	1.0	C	1.89
BP-21	.1+.1	A	1.98
BP-225	.25+.25	B	2.16
BP-250	.5+.5	C	2.49
BP-31	.1+.1+.1	A	2.40

600 WVDC

Cat. No.	Mfd.	Size*	Net
BP-56	.05	A	1.74
BP-16	.1	A	1.77
BP-256	.25	A	1.86
BP-506	.5	B	1.98
BP-106	1.0	C	2.25
BP-206	2.0	D	3.00
BP-2056	.05+.05	A	2.19
BP-216	.1+.1	A	2.22
BP-2256	.25+.25	B	2.25
BP-2506	.5+.5	C	2.58
BP-116	1.0+1.0	D	3.18
BP-316	.1+.1+.1	A	2.52
BP-3256	.25+.25+.25	C	2.85
BP-356	.5+.5+.5	D	3.45

1000 WVDC

Cat. No.	Mfd.	Size*	Net
BP-51	.05	A	1.83
BP-11	.1	A	1.89
BP-251	.25	A	1.95
BP-501	.5	C	2.13
BP-101	1.0	D	2.64
BP-2051	.05+.05	A	2.31
BP-211	.1+.1	A	2.40
BP-2251	.25+.25	C	2.52
BP-2501	.5+.5	D	3.27
BP-311	.1+.1+.1	B	2.76
BP-3251	.25+.25+.25	D	3.30

*SIZE OF CAPACITORS ABOVE

A—1 13/16″ long x 1″ wide x ¾″ high.
B—1 13/16″ long x 1″ wide x ⅞″ high.
C—2″ long x 1¾″ wide x ⅞″ high.
D—2″ long x 2″ wide x 1⅛″ high.

AR AUTOMOBILE TYPES (GENERATOR)

Cat. No.	Mfd.	D. x L. In.	Net
AR-1	1.0	1 x 2 3/16	$1.05
AR-2	.5	11/16 x 1⅛	.54
AR-25	.5+.5	1 x 2 3/16	1.95
AR-Ford	.5	11/16 x 1⅞	.87

LR AUTOMOBILE TYPES (VIBRATOR)

Cat. No.	Mfd.	WVDC	T x W x L In.	Net
LR-11	.01	1600	¼ x ⅞ x 1 1/16	$1.20
LR-12	.02	1600	¼ x ⅞ x 1 1/16	1.74
LR-27	.007	1600	¼ x ⅞ x 1 1/16	1.59

SPECIAL AUTO TYPES

DOME LIGHT FILTER

Cat. No.	Mfd.	WVDC	Net
DL-1	.2	200	$2.52

GAS GAUGE FILTER

GG-5	.05	200	.72

OIL GAUGE FILTER

OG-50	.25	200	.84

FORD REPLACEMENT

P-2077	.5	200	.75

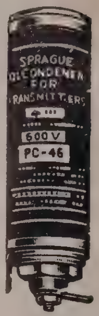
AMMETER CAPACITOR

P-3402	.5	200	.54

MOTOROLA REPLACEMENT

P-2153	.0008+.0008	1000	.48

PC TRANSMITTING TYPES



- Oil-impregnated.
- Oil-filled.
- Screwbase can.
- "Lifeguard" protective caps.
- Retains dielectric efficiency at low temperatures.
- Extremely useful in public address systems, radio transmitters, high-gain amplifiers, etc.

Cat. No.	Mfd.	WVDC	D. x L. In.	Net
PC-26	2.0	600	1½ x 2⅞	$3.24
PC-36	3.0	600	1½ x 3½	3.69
PC-46	4.0	600	1½ x 4½	4.26
PC-11	1.0	1000	1½ x 2⅞	3.00
PC-21	2.0	1000	1½ x 4½	3.78
PC-515	0.5	1500	1½ x 2⅜	3.51
PC-115	1.0	1500	1½ x 3⅞	3.78

OT TRANSMITTING TYPES

- Oil-impregnated and filled.
- Hermetically sealed.
- Ceramic terminals.
- "Lifeguard" protective caps.
- Rated to conform with tube and circuit design requirements.
- A favorite with radio amateurs.

Cat. No.	Mfd.	WVDC	D. x L. In.	Net
OT-26	2	600	2 x 2 15/16	$3.27
OT-11	1	1000	2 x 2 15/16	2.79
OT-21	2	1000	2 x 3 3/16	3.78
OT-41	4	1000	2 x 5 3/16	4.80
OT-515	.05	1500	2 x 2 15/16	3.03
OT-115	1	1500	2 x 2 21/32	3.51
OT-215	2	1500	2 x 4 15/16	4.80
OT-12	1	2000	2 x 4 3/16	4.53
OT-22	2	2000	2½ x 4 15/16	5.04
OT-13	1	3000	2½ x 4 23/32	9.09

HYPASS CAPACITORS

- Exclusive Sprague 3-terminal Network Feed-thru Capacitors.
- Bypass V-H-F Currents where ordinary capacitors are ineffective.
- Suppress TVI from short-wave transmitters, diathermy machines, electronic heating apparatus, etc.
- Eliminate interference caused by line-conducted radiation between neighboring TV sets.
- Install leads in series with circuit being filtered and ground the case.
- 48P-18 has female screw terminals—For filtering voltage regulator noise.
- 80P-3 has bulkhead mounting—Use where complete shielding is necessary.

Cat. No.	Mfd.	WVDC	D. x L. In.	Net
48P-18	.5	50	1 x 1 13/16	$2.28
*48P-9	.1	250	11/16 x 1 13/16	1.56
*80P-3	.1	250	11/16 x 1 13/16	1.77
46P-12	.002	600	¼ x 1⅝	1.29
46P-8	.005	600	¼ x 1⅝	1.29
47P-6	.01	600	7/16 x 1¼	1.41
47P-12	.005	1000	7/16 x 1¼	1.44
47P-13	.01	1000	7/16 x 1½	1.56
47P-14	.005	2500	1 x 1 9/16	1.74
47P-15	.01	2500	1 x 1 9/16	1.86
47P-16	.002	5000	1 x 1 9/16	1.92

*WVAC—Has female screw terminals.

CR TRANSMITTING TYPES

SPRAGUE TYPE CR

- Oil-filled.
- Hermetically sealed.
- High insulation resistance.
- Universal mounting.
- "Lifeguard" protective caps.
- Unconditionally guaranteed against breakdown when used as specified.

600 WVDC

Cat. No.	Mfd.	T. x W. x L. In.	Net
CR-056	.5	1 1/16 x 1 13/16 x 2¼	$2.82
CR-16	1.0	1 1/16 x 1 13/16 x 2¼	3.48
CR-26	2.0	1 1/16 x 1 13/16 x 2⅞	4.29
CR-36	3.0	1 1/16 x 1 13/16 x 3¼	4.95
CR-46	4.0	1 3/16 x 2½ x 3½	5.46
CR-66	6.0	1 3/16 x 2½ x 4¾	6.78
CR-86	8.0	1¼ x 3¾ x 3⅞	8.10
CR-106	10.0	1¼ x 3¾ x 4¾	9.09

1000 WVDC

Cat. No.	Mfd.	T. x W. x L. In.	Net
CR-011	.1	1 1/16 x 1 13/16 x 1⅝	2.49
CR-0251	.25	1 1/16 x 1 13/16 x 2¼	2.82
CR-051	.5	1 1/16 x 1 13/16 x 2¼	2.97
CR-11	1.0	1 1/16 x 1 13/16 x 2¼	3.81
CR-21	2.0	1 1/16 x 1 13/16 x 3⅞	4.95
CR-41	4.0	1 3/16 x 2½ x 4¾	6.27
CR-81	8.0	1¼ x 3¾ x 4¾	9.09
CR-101	10.0	1¾ x 3¾ x 4¾	10.08
CR-121	12.0	2¼ x 3¾ x 4½	10.89
CR-151	15.0	2½ x 3¾ x 4¾	12.06

1500 WVDC

Cat. No.	Mfd.	T. x W. x L. In.	Net
CR-0515	.5	1 1/16 x 1 13/16 x 2⅞	3.81
CR-115	1.0	1 1/16 x 1 13/16 x 3⅞	4.47
CR-215	2.0	1 3/16 x 2½ x 4¼	6.12
CR-415	4.0	1¼ x 3¾ x 4¾	8.43
CR-515	5.0	1¼ x 3¾ x 4¾	9.09
CR-815	8.0	2½ x 3¾ x 4¾	12.54
CR-1015	10.0	3 3/16 x 3¾ x 4¾	15.03

2000 WVDC

Cat. No.	Mfd.	T. x W. x L. In.	Net
CR-012	.1	1 3/16 x 2½ x 2½	3.96
CR-0252	.25	1 3/16 x 2½ x 2½	4.29
CR-052	.5	1 3/16 x 2½ x 2⅞	4.47
CR-12	1.0	1 3/16 x 2½ x 3½	5.46
CR-22	2.0	1¼ x 3¾ x 4¼	6.45
CR-32	3.0	1¼ x 3¾ x 4¾	7.92
CR-42	4.0	2¼ x 3¾ x 3⅞	9.09
CR-62	6.0	3 3/16 x 3¾ x 4½	12.06
CR-102	10.0	4 9/16 x 3¾ x 4¾	18.33

2500 WVDC

Cat. No.	Mfd.	T. x W. x L. In.	Net
CR-0125	.1	1 3/16 x 2½ x 2½	6.09
CR-0525	.5	1¼ x 3¾ x 3¼	6.93
CR-125	1.0	1¾ x 3¾ x 3¼	7.92
CR-225	2.0	1¾ x 3¾ x 4¾	12.87
CR-425	4.0	4 9/16 x 3¾ x 4⅝	18.00

3000 WVDC

Cat. No.	Mfd.	T. x W. x L. In.	Net
CR-013	.1	1 3/16 x 2½ x 2½	8.43
CR-0253	.25	1 3/16 x 2½ x 2⅞	8.91
CR-053	.5	1 3/16 x 2½ x 4¼	10.08
CR-13	1.0	2¼ x 3¾ x 3⅞	12.06
CR-23	2.0	3 3/16 x 3¾ x 4½	15.03
CR-43	4.0	4 9/16 x 3¾ x 4¾	22.11

4000 WVDC

Cat. No.	Mfd.	T. x W. x L. In.	Net
CR-014	.1	2¼ x 3¾ x 2¾	10.80
CR-0254	.25	2¼ x 3¾ x 2¾	12.00
CR-054	.5	2¼ x 3¾ x 3⅝	13.80
CR-14	1.0	2¼ x 3¾ x 5⅛	17.40
CR-24	2.0	4 9/16 x 3¾ x 5⅛	23.40

5000 WVDC

Cat. No.	Mfd.	T. x W. x L. In.	Net
CR-025	.2	1¾ x 3¾ x 3⅞	12.00
CR-055	.5	2¼ x 3¾ x 4½	15.00
CR-15	1.0	4 9/16 x 3¾ x 4⅜	20.40
CR-25	2.0	4 9/16 x 3¾ x 6	31.20

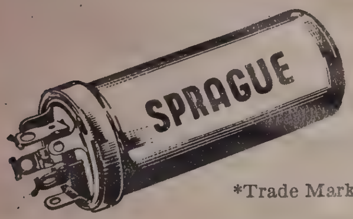
6000 WVDC

Cat. No.	Mfd.	T. x W. x L. In.	Net
CR-0160	.1	2¼ x 3¾ x 3⅜	16.20
CR-0260	.2	1¾ x 3¾ x 4¼	18.00
CR-160	1.0	4 9/16 x 3¾ x 7½	29.40

7500 WVDC

Cat. No.	Mfd.	T. x W. x L. In.	Net
CR-0175	.1	2¼ x 3¾ x 3⅞	17.40
CR-0275	.2	1¾ x 3¾ x 4¾	19.80

Electrolytic Capacitors by SPRAGUE



*Trade Mark.

TYPE TVL TWISTLOK* CAPACITORS

- The world's most complete line of can-type electrolytics.
- Especially designed for tough TV replacement applications.
- Hermetically sealed in aluminum cans for long life.
- Stand up under high temperatures, high ripple currents, high surge voltages.
- Ideal for above-chassis mounting—complete with bakelite and metal washers.
- The most dependable electrolytic in such compact size.
- Easy to mount—a twist of the tabs locks unit in place.
- Designed for 85° C (185° F) operation, up to 450 WDVC.

SINGLE UNITS

Cat. No.	MF	WVDC	D. x L., Ins.	Net Each
TVL-1010	.5Ω@15.75 KC	3NP	1 x 2	$1.26
TVL-1015	1Ω@60 CPS	3NP	1⅜ x 2½	1.92
TVL-1020	10Ω@30 CPS	3NP	¾ x 2	1.32
TVL-1115	2000	6	1⅜ x 2	1.53
TVL-1140	3000	10	1⅜ x 2½	1.74
TVL-1165	1000	15	1 x 2½	1.53
TVL-1168	2000	15	1⅜ x 2	2.07
TVL-1170	3000	15	1⅜ x 3	2.10
TVL-1210	40	25	¾ x 2	.81
TVL-1215	100	25	¾ x 2	.96
TVL-1220	500	25	1 x 2	1.53
TVL-1230	1000	25	1⅜ x 2	2.13
TVL-1320	150	50	¾ x 2½	1.08
TVL-1330	500	50	1⅜ x 2½	1.59
TVL-1405	20	150	1 x 2	.87
TVL-1408	30	150	1 x 2	.93
TVL-1412	40	150	1 x 2	.96
TVL-1415	50	150	1 x 2	.99
TVL-1420	80	150	1 x 2½	1.11
TVL-1421	80	150	1⅜ x 2	1.11
TVL-1423	100	150	1 x 2½	1.20
TVL-1425	120	150	1 x 3½	1.29
TVL-1428	140	150	1 x 3	1.29
TVL-1430	150	150	1⅜ x 3	1.29
TVL-1431	200	150	1⅜ x 4	1.47
TVL-1434	300	150	1⅜ x 3½	1.68
TVL-1460	40	200	1 x 2	1.02
TVL-1505	15	250	1 x 2	.93
TVL-1509	20	250	1 x 2	.96
TVL-1516	30	250	1 x 2	1.02
TVL-1519	40	250	1 x 2	1.08
TVL-1522	50	250	1 x 2½	1.17
TVL-1525	60	250	1 x 3	1.23
TVL-1530	80	250	1 x 3½	1.29
TVL-1535	100	250	1 x 3	1.62
TVL-1540	150	250	1⅜ x 2½	1.86
TVL-1560	15	300	1 x 2	.96
TVL-1563	30	300	1 x 2	1.05
TVL-1567	50	300	1 x 2½	1.23
TVL-1570	60	300	1 x 3	1.26
TVL-1573	80	300	1 x 3½	1.53
TVL-1578	100	300	1 x 4	1.74
TVL-1580	125	300	1⅜ x 3½	2.10
TVL-1584	150	300	1⅜ x 3½	2.10
TVL-1617	30	350	1 x 2½	1.14
TVL-1621	40	350	1 x 2	1.20
TVL-1622	50	350	1 x 3	1.26
TVL-1630	80	350	1⅜ x 3	1.71
TVL-1638	125	350	1⅜ x 3½	2.37
TVL-1655	10	400	1 x 2	.90
TVL-1660	20	400	1 x 2	1.05
TVL-1675	80	400	1⅜ x 3	1.77
TVL-1705	10	450	1 x 2	.93
TVL-1709	15	450	1 x 2	1.02
TVL-1714	20	450	1 x 2	1.08
TVL-1720	30	450	1 x 2½	1.17
TVL-1725	40	450	1 x 3	1.23
TVL-1735	80	450	1⅜ x 2½	1.83
TVL-1760	125	450	1⅜ x 4	2.31
TVL-1810	30	475	1 x 3	1.20
TVL-1820	40	475	1⅜ x 2	1.50
TVL-1850	90	475	1⅜ x 3½	2.10
TVL-1940	10	500	1 x 2	1.02

DUAL UNITS

Cat. No.	MF	WVDC	D. x L., Ins.	Net Each
TVL-2010	.5Ω@15.75 KC 2.5Ω@60 CPS		1⅜ x 2	$2.16
TVL-2120	1000-500	6NP-6NP	1⅜ x 2	2.34
TVL-2140	250-1000	10-6	1⅜ x 2	1.71
TVL-2160	1000-1000	15-15	1 x 3½	2.64
TVL-2210	40-40	25-25	1 x 2	.96
TVL-2230	150-50	25-25	1 x 2	1.14
TVL-2320	50-50	50-50	1 x 2	1.02
TVL-2404	50-500	150-5	1 x 3	1.47
TVL-2415	20-20	150-150	1 x 2	1.02
TVL-2418	30-15	150-150	1 x 2	1.05
TVL-2422	30-30	150-150	1 x 2	1.11
TVL-2425	40-20	150-150	1 x 2	1.11
TVL-2428	40-40	150-150	1 x 2½	1.14
TVL-2432	50-30	150-150	1 x 2½	1.20
TVL-2435	50-50	150-150	1 x 2½	1.29
TVL-2438	60-60	150-150	1 x 3½	1.41
TVL-2442	80-40	150-150	1⅜ x 2½	1.38
TVL-2444	200-5	150-150	1⅜ x 3	1.62
TVL-2445	200-125	150-150	1⅜ x 3½	2.25
TVL-2447	200-200	150-150	1⅜ x 4	2.40
TVL-2460	40-40	200-200	1 x 3	1.38

DUAL UNITS—(Continued)

Cat. No.	MF	WVDC	D. x L., Ins.	Net Each
TVL-2505	40-25	250-25	1 x 2½	1.20
TVL-2510	10-10	250-250	1 x 2	1.02
TVL-2515	20-20	250-250	1 x 2	1.14
TVL-2520	40-40	250-250	1 x 3½	1.50
TVL-2535	150-150	250-250	1⅜ x 4	3.09
TVL-2555	20-20	300-25	1 x 2	1.11
TVL-2565	10-10	300-300	1 x 2	1.05
TVL-2568	15-15	300-300	1 x 2	1.14
TVL-2575	40-40	300-300	1⅜ x 2½	1.80
TVL-2579	60-60	300-300	1⅜ x 2½	2.04
TVL-2582	80-40	300-300	1⅜ x 2½	2.13
TVL-2584	80-60	300-300	1⅜ x 3½	2.22
TVL-2585	80-80	300-300	1⅜ x 3½	2.43
TVL-2588	120-20	300-300	1⅜ x 3½	2.40
TVL-2589	120-40	300-300	1⅜ x 3½	2.61
TVL-2615	20-30	350-250	1 x 3	1.38
TVL-2617	40-10	350-250	1 x 3	1.47
TVL-2618	60-80	350-250	1⅜ x 3½	2.07
TVL-2621	30-30	350-300	1 x 3½	1.59
TVL-2626	20-20	350-350	1 x 3	1.38
TVL-2627	30-20	350-350	1 x 3½	1.56
TVL-2635	80-80	350-350	1⅜ x 4	2.82
TVL-2637	90-40	350-350	1⅜ x 3	2.58
TVL-2653	40-100	400-50	1⅜ x 2	1.62
TVL-2657	60-80	400-250	1⅜ x 4	2.34
TVL-2660	15-15	400-400	1 x 2½	1.35
TVL-2663	30-10	400-400	1 x 3	1.41
TVL-2668	60-60	400-400	1⅜ x 4	2.64
TVL-2672	80-10	400-400	1⅜ x 3½	2.04
TVL-2673	80-20	400-400	1⅜ x 3	2.19
TVL-2675	80-40	400-400	1⅜ x 4	2.46
TVL-2679	120-40	400-400	1⅜ x 4	3.15
TVL-2705	80-10	450-25	1⅜ x 3	2.04
TVL-2708	10-100	450-50	1 x 2½	1.23
TVL-2710	80-50	450-50	1⅜ x 3	2.10
TVL-2713	20-100	450-100	1⅜ x 2	1.74
TVL-2730	20-80	450-350	1⅜ x 3½	2.19
TVL-2735	40-10	450-350	1⅜ x 2½	1.56
TVL-2750	10-10	450-450	1 x 2	1.14
TVL-2752	15-10	450-450	1 x 2½	1.35
TYL-2753	15-15	450-450	1 x 2½	1.35
TVL-2755	20-20	450-450	1 x 3	1.53
TVL-2759	30-30	450-450	1⅜ x 2½	1.83
TVL-2764	40-40	450-450	1⅜ x 3	2.07
TVL-2770	60-40	450-450	1⅜ x 3½	2.37
TVL-2776	80-10	450-450	1⅜ x 3	2.16
TVL-2777	80-30	450-450	1⅜ x 4	2.52
TVL-2810	20-100	475-300	1⅜ x 3½	2.37
TVL-2830	40-40	475-475	1⅜ x 3	2.58
TVL-2850	80-40	475-475	1⅜ x 4	3.03
TVL-2920	40-50	500-200	1⅜ x 3	2.01

TRIPLE UNITS

Cat. No.	MF	WVDC	D. x L., Ins.	Net Ea.
TVL-3015	1500-1500-1500	3-3-3	1 x 3½	$3.60
TVL-3210	20-20-20	25-25-25	1 x 2	1.17
TVL-3230	40-40-40	25-25-25	1 x 2	1.29
TVL-3320	30-30-30	50-50-50	1 x 2	1.29
TVL-3403	20-250-100	150-15-15	1⅜ x 2	1.74
TVL-3407	100-50-25	150-50-25	1 x 3	1.80
TVL-3412	30-20-100	150-150-6	1 x 2	1.44
TVL-3415	20-20-20	150-150-25	1 x 2	1.32
TVL-3417	30-20-20	150-150-25	1 x 2	1.35
TVL-3419	30-30-20	150-150-25	1 x 2	1.38
TVL-3422	40-20-20	150-150-25	1 x 2½	1.38
TVL-3424	40-30-20	150-150-25	1 x 2	1.41
TVL-3425	40-30-25	150-150-25	1 x 2½	1.41
TVL-3427	50-30-100	150-150-25	1 x 3	1.62
TVL-3430	50-50-20	150-150-25	1 x 3	1.59
TVL-3433	20-20-20	150-150-150	1 x 2½	1.38
TVL-3435	30-30-10	150-150-150	1 x 2	1.41
TVL-3437	40-20-20	150-150-150	1 x 2½	1.44
TVL-3440	40-40-40	150-150-150	1 x 3½	1.56
TVL-3442	50-50-50	150-150-150	1 x 3	1.80
TVL-3446	80-80-80	150-150-150	1⅜ x 3	2.25
TVL-3448	120-80-40	150-150-150	1⅜ x 3½	2.28
TVL-3470	70-70-20	250-250-50	1⅜ x 3	2.34
TVL-3475	100-10-40	200-200-50	1⅜ x 2	1.89
TVL-3510	15-15-20	250-250-25	1 x 2	1.41
TVL-3513	30-30-20	250-250-25	1 x 3	1.68
TVL-3517	40-20-10	250-250-150	1⅜ x 2	1.65
TVL-3525	80-80-60	250-250-200	1⅜ x 3½	2.70
TVL-3530	15-15-10	250-250-250	1 x 2	1.47
TVL-3534	30-15-10	250-250-250	1 x 2½	1.62
TVL-3540	40-20-20	250-250-250	1 x 3½	1.74
TVL-3560	100-60-20	300-150-25	1⅜ x 3	2.52
TVL-3562	100-60-20	300-250-250	1⅜ x 4	2.94
TVL-3563	200-60-20	300-250-250	1⅜ x 4	3.30
TVL-3565	20-20-20	300-300-25	1 x 2½	1.65
TVL-3570	40-15-20	300-300-25	1 x 3	1.77
TVL-3573	40-20-20	300-300-25	1⅜ x 2	1.86

Electrolytic Capacitors by SPRAGUE

TRIPLE UNITS—(Continued)

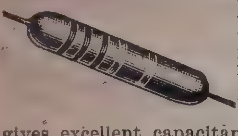
Cat. No.	MF	WVDC	D. x L., Ins	Net
TVL-3575	200-20-10	300-300-100	1⅜ x 4	2.94
TVL-3578	10-10-15	300-300-250	1 x 2	1.47
TVL-3580	10-10-10	300-300-300	1 x 2	1.44
TVL-3583	80-40-40	300-300-300	1⅜ x 3½	2.85
TVL-3585	120-50-40	300-300-300	1⅜ x 4	3.51
TVL-3603	4-100-40	350-25-25	1 x 2	1.35
TVL-3608	10-50-100	350-150-50	1 x 3½	1.71
TVL-3610	125-5-100	350-200-75	1⅜ x 3½	3.18
TVL-3612	20-30-20	350-250-25	1 x 3	1.68
TVL-3615	30-20-10	350-250-250	1 x 3½	1.80
TVL-3619	20-40-10	350-300-150	1 x 3½	1.89
TVL-3620	30-30-20	350-300-25	1 x 3	1.89
TVL-3623	40-20-10	350-300-200	1⅜ x 2	1.98
TVL-3628	10-10-20	350-350-25	1 x 2	1.95
TVL-3629	30-20-100	350-350-75	1⅜ x 2½	2.40
TVL-3630	15-10-20	350-350-25	1 x 2½	1.50
TVL-3632	15-15-20	350-350-25	1 x 2½	1.62
TVL-3633	20-5-30	350-350-25	1 x 2	1.47
TVL-3634	20-10-20	350-350-25	1 x 2½	1.53
TVL-3636	30-20-20	350-350-25	1 x 3½	1.86
TVL-3637	10-5-30	350-350-50	1 x 2	1.32
TVL-3638	10-5-150	350-350-50	1 x 3	1.62
TVL-3640	60-40-20	350-350-350	1⅜ x 4	2.55
TVL-3642	80-60-60	350-350-350	1⅜ x 4	3.33
TVL-3645	90-40-20	350-350-350	1⅜ x 4	3.15
TVL-3663	60-40-20	400-300-25	1⅜ x 3½	2.52
TVL-3665	10-40-10	400-300-150	1⅜ x 2	1.74
TVL-3670	10-50-30	400-350-25	1 x 3½	1.86
TVL-3672	100-10-20	400-350-50	1⅜ x 3½	2.70
TVL-3675	15-15-40	400-400-25	1 x 3	1.68
TVL-3678	20-20-20	400-400-25	1 x 3	1.71
TVL-3682	20-10-40	400-400-50	1 x 3	1.59
TVL-3684	80-40-150	400-400-50	1⅜ x 4	3.15
TVL-3687	20-10-10	400-400-350	1 x 3	1.62
TVL-3690	10-10-10	400-400-400	1 x 2½	1.44
TVL-3703	30-100-25	450-25-25	1⅜ x 2	1.77
TVL-3704	80-100-20	450-50-50	1⅜ x 3	2.55
TVL-3706	40-40-130	450-150-50	1⅜ x 3	2.22
TVL-3708	40-90-50	450-150-150	1⅜ x 3	2.40
TVL-3709	20-80-50	450-200-50	1⅜ x 2½	2.04
TVL-3711	20-60-100	450-250-25	1⅜ x 2½	2.19
TVL-3712	10-80-80	450-250-250	1⅜ x 4	2.49
TVL-3713	20-40-10	450-250-250	1⅜ x 2	1.89
TVL-3714	30-10-10	450-300-150	1 x 3	1.77
TVL-3715	10-100-20	450-300-300	1⅜ x 3	2.61
TVL-3716	20-15-10	450-300-300	1 x 3½	1.71
TVL-3719	10-10-20	450-350-25	1 x 2½	1.38
TVL-3720	60-80-20	450-400-250	1⅜ x 4	3.27
TVL-3721	10-10-50	450-350-25	1 x 3	1.44
TVL-3722	20-80-100	450-350-50	1⅜ x 3½	2.70
TVL-3723	30-40-50	450-350-25	1 x 4	2.22
TVL-3724	15-20-20	450-350-250	1⅜ x 2	1.77
TVL-3725	60-20-20	450-350-350	1⅜ x 3½	2.58
TVL-3726	10-30-30	450-400-300	1⅜ x 2½	2.01
TVL-3727	20-80-10	450-350-350	1⅜ x 3	2.55
TVL-3728	4-40-40	450-400-300	1⅜ x 2½	2.76
TVL-3729	10-10-10	450-450-25	1 x 2½	1.44
TVL-3731	10-10-20	450-450-25	1 x 2½	1.44
TVL-3733	15-15-20	450-450-25	1 x 3	1.62
TVL-3735	20-10-20	450-450-25	1 x 3	1.62
TVL-3737	20-15-20	450-450-25	1 x 3½	1.74
TVL-3739	20-20-20	450-450-25	1 x 3	1.83
TVL-3741	30-30-20	450-450-25	1⅜ x 2½	2.13
TVL-3743	30-30-125	450-450-25	1⅜ x 3	2.37
TVL-3745	80-10-125	450-450-25	1⅜ x 3½	2.67
TVL-3746	80-40-100	450-450-25	1⅜ x 4	3.03
TVL-3749	10-10-40	450-450-50	1 x 2½	1.50
TVL-3751	20-10-50	450-450-50	1 x 3	1.71
TVL-3753	30-15-150	450-450-50	1⅜ x 3	2.22
TVL-3754	40-10-40	450-450-50	1⅜ x 2½	1.95
TVL-3756	60-40-75	450-450-50	1⅜ x 4	2.79
TVL-3757	80-20-100	450-450-50	1⅜ x 4	2.88
TVL-3758	40-40-40	450-450-150	1⅜ x 3½	2.49
TVL-3761	40-10-80	450-450-200	1⅜ x 3	2.34
TVL-3762	40-10-100	450-450-200	1⅜ x 3½	2.49
TVL-3763	40-40-60	450-450-200	1⅜ x 3½	2.67
TVL-3764	40-40-100	450-450-200	1⅜ x 4	2.97
TVL-3765	15-10-120	450-450-300	1⅜ x 3½	2.82
TVL-3766	15-15-10	450-450-300	1 x 3½	1.77
TVL-3768	15-5-15	450-450-350	1 x 3	1.71
TVL-3770	20-20-60	450-450-350	1⅜ x 3½	3.03
TVL-3772	40-10-10	450-450-350	1⅜ x 3	1.98
TVL-3776	10-10-10	450-450-450	1 x 3	1.56
TVL-3778	15-15-10	450-450-450	1 x 3½	1.77
TVL-3780	20-20-20	450-450-450	1⅜ x 2½	2.16
TVL-3782	30-30-30	450-450-450	1⅜ x 3½	2.61
TVL-3785	40-40-10	450-450-450	1⅜ x 3½	2.49
TVL-3786	40-40-20	450-450-450	1⅜ x 3	2.67
TVL-3787	40-40-40	450-450-450	1⅜ x 3½	2.94
TVL-3789	60-20-20	450-450-450	1⅜ x 3	2.76
TVL-3790	60-30-10	450-450-450	1⅜ x 3	2.70
TVL-3792	80-40-10	450-450-450	1⅜ x 4	3.03
TVL-3800	10-100-40	475-200-50	1⅜ x 2½	2.02
TVL-3801	20-50-20	475-50-25	1 x 3	1.65
TVL-3802	40-40-100	475-250-50	1⅜ x 3	2.58
TVL-3805	20-20-40	475-300-25	1⅜ x 2	1.86
TVL-3806	40-80-10	475-300-300	1⅜ x 3½	2.88
TVL-3807	10-4-40	475-350-250	1⅜ x 2	1.65
TVL-3813	40-40-25	475-400-50	1⅜ x 3	2.58
TVL-3815	10-45-100	475-450-50	1⅜ x 3	2.19
TVL-3817	20-10-100	475-475-50	1⅜ x 2	1.95
TVL-3820	20-20-60	475-475-400	1⅜ x 3½	2.88
TVL-3835	10-10-10	475-475-475	1 x 3	1.62
TVL-3840	30-30-20	475-475-475	1⅜ x 3	2.67
TVL-3843	40-30-30	475-475-475	1⅜ x 4	3.09
TVL-3908	20-40-100	500-300-25	1⅜ x 2½	2.16
TVL-3911	10-40-40	500-450-450	1⅜ x 3½	2.49

QUADRUPLE UNITS

Cat. No.	MF	WVDC	D. x L., Ins.	Net Ea.
TVL-4415	30-30-30-40	150-150-150-25	1⅜ x 2	1.86
TVL-4420	40-40-30-20	150-150-150-25	1⅜ x 2	1.86
TVL-4425	50-50-50-20	150-150-150-25	1⅜ x 2	2.13
TVL-4428	60-60-10-60	150-150-150-25	1⅜ x 2	2.10
TVL-4470	40-20-10-20	200-200-200-25	1⅜ x 2	1.92
TVL-4516	100-40-10-100	250-250-250-50	1⅜ x 3½	3.09
TVL-4524	80-60-40-20	250-250-250-150	1⅜ x 4	3.06
TVL-4555	100-40-80-20	300-50-25-25	1⅜ x 3	2.73
TVL-4559	10-200-140-30	300-150-150-150	1⅜ x 3½	3.06
TVL-4561	100-10-200-30	300-300-150-150	1⅜ x 4	3.54
TVL-4562	120-20-20-100	300-250-25-30	1⅜ x 3½	3.15
TVL-4565	10-10-10-20	300-300-300-25	1⅜ x 2	1.77
TVL-4570	60-40-20-50	300-300-300-25	1⅜ x 3½	2.82
TVL-4575	40-40-40-20	300-300-300-150	1⅜ x 3	2.94
TVL-4578	40-20-10-10	300-300-300-300	1⅜ x 2	2.37
TVL-4579	40-40-20-10	300-300-300-300	1⅜ x 3½	2.73
TVL-4583	60-40-10-10	300-300-300-300	1⅜ x 2½	2.73
TVL-4603	20-150-80-20	350-150-150-25	1⅜ x 3	2.73
TVL-4604	20-100-100-10	350-200-200-100	1⅜ x 4	3.00
TVL-4605	40-40-20-20	350-300-300-25	1⅜ x 3½	2.70
TVL-4606	40-10-100-25	350-350-25-25	1⅜ x 2	2.25
TVL-4607	60-4-100-40	350-350-25-25	1⅜ x 2½	2.28
TVL-4609	60-40-60-20	350-350-200-150	1⅜ x 3½	3.03
TVL-4612	10-10-10-10	350-350-300-300	1⅜ x 2	1.86
TVL-4620	20-10-5-10	350-350-350-25	1⅜ x 2	1.86
TVL-4621	40-20-5-10	350-350-350-25	1⅜ x 2½	2.28
TVL-4622	40-40-30-100	350-350-350-25	1⅜ x 3	2.97
TVL-4625	90-30-5-100	350-350-350-75	1⅜ x 3½	3.69
TVL-4628	40-40-40-150	350-350-350-50	1⅜ x 4	3.39
TVL-4630	60-25-25-100	350-350-350-50	1⅜ x 3½	3.09
TVL-4632	100-10-10-20	350-350-350-50	1⅜ x 3½	3.09
TVL-4634	100-40-30-50	350-350-350-50	1⅜ x 4	3.93
TVL-4637	40-120-10-150	400-250-250-50	1⅜ x 4	3.54
TVL-4638	10-100-10-100	400-300-75-25	1⅜ x 3½	2.82
TVL-4641	80-40-20-10	400-300-300-300	1⅜ x 4	3.33
TVL-4652	20-10-10-20	400-350-200-25	1⅜ x 2	1.92
TVL-4657	40-10-80-10	400-350-250-250	1⅜ x 4	2.79
TVL-4659	80-40-10-10	400-350-350-25	1⅜ x 4	3.18
TVL-4662	10-10-25-25	400-400-25-25	1⅜ x 2	1.68
TVL-4664	10-10-40-10	400-400-200-50	1⅜ x 2	1.92
TVL-4667	20-20-20-20	400-400-400-25	1⅜ x 2½	2.31
TVL-4670	80-40-30-40	400-400-400-25	1⅜ x 4	3.57
TVL-4675	80-10-10-10	400-400-400-400	1⅜ x 3½	2.82
TVL-4680	80-25-10-10	400-400-400-400	1⅜ x 4	3.15
TVL-4700	10-80-40-100	450-200-200-50	1⅜ x 3	2.55
TVL-4701	20-80-20-50	450-200-200-50	1⅜ x 3	2.46
TVL-4702	40-40-40-20	450-250-250-25	1⅜ x 3	2.73
TVL-4703	10-40-40-100	450-300-250-50	1⅜ x 3½	2.64
TVL-4704	10-100-20-20	450-300-300-200	1⅜ x 3	3.03
TVL-4705	10-10-60-100	450-300-200-50	1⅜ x 3	2.28
TVL-4706	10-100-10-20	450-350-350-25	1⅜ x 3	3.12
TVL-4707	10-60-40-25	450-350-350-25	1⅜ x 4	2.76
TVL-4708	20-15-15-20	450-350-350-25	1⅜ x 2½	2.28
TVL-4709	5-60-50-20	450-400-350-25	1⅜ x 3½	3.03
TVL-4710	80-10-30-40	450-400-300-150	1⅜ x 4	3.15
TVL-4711	20-80-50-100	450-350-350-50	1⅜ x 4	3.60
TVL-4712	20-15-20-20	450-450-25-25	1⅜ x 2	2.07
TVL-4713	10-10-60-100	450-450-200-50	1⅜ x 3	2.31
TVL-4714	35-25-20-100	450-450-200-50	1⅜ x 3	2.79
TVL-4715	20-20-30-30	450-450-300-300	1⅜ x 3½	2.70
TVL-4716	10-10-10-50	450-450-300-25	1⅜ x 2	1.89
TVL-4718	40-10-35-10	450-450-350-350	1⅜ x 3½	2.76
TVL-4720	40-40-30-30	450-450-350-350	1⅜ x 4	3.54
TVL-4723	10-10-10-20	450-450-450-25	1⅜ x 2	1.89
TVL-4725	30-30-10-125	450-450-450-25	1⅜ x 3	2.82
TVL-4726	40-10-10-250	450-450-450-25	1⅜ x 3	2.82
TVL-4729	40-15-10-20	450-450-450-25	1⅜ x 3	2.46
TVL-4732	40-20-20-40	450-450-450-25	1⅜ x 3	2.79
TVL-4734	40-30-10-20	450-450-450-25	1⅜ x 3½	2.70
TVL-4736	40-40-10-20	450-450-450-25	1⅜ x 3½	2.82
TVL-4739	40-40-40-40	450-450-450-25	1⅜ x 4	3.30
TVL-4740	20-20-20-100	450-450-450-50	1⅜ x 2½	2.73
TVL-4742	30-30-15-30	450-450-450-50	1⅜ x 3	2.73
TVL-4745	40-40-10-25	450-450-450-50	1⅜ x 3½	2.82
TVL-4747	40-40-10-100	450-450-450-100	1⅜ x 3½	3.33
TVL-4750	10-10-10-10	450-450-450-150	1⅜ x 2	1.89
TVL-4753	60-10-10-20	450-450-450-150	1⅜ x 3	2.73
TVL-4755	35-35-10-10	450-450-450-200	1⅜ x 3½	2.76
TVL-4760	10-10-10-10	450-450-450-450	1⅜ x 2	2.01
TVL-4761	20-10-10-10	450-450-450-450	1⅜ x 2½	2.22
TVL-4763	20-20-20-20	450-450-450-450	1⅜ x 3	2.82
TVL-4766	30-15-15-15	450-450-450-450	1⅜ x 3	2.67
TVL-4769	30-30-15-10	450-450-450-450	1⅜ x 3½	2.82
TVL-4771	35-35-10-5	450-450-450-450	1⅜ x 3½	2.76
TVL-4774	40-40-30-30	450-450-450-450	1⅜ x 4	3.63
TVL-4780	70-10-10-5	450-450-450-450	1⅜ x 3	2.85
TVL-4800	20-40-100-80	475-300-50-25	1⅜ x 3	2.67
TVL-4802	10-100-10-100	475-300-300-25	1⅜ x 3½	2.94
TVL-4803	10-30-5-80	475-350-350-50	1⅜ x 2½	2.22
TVL-4804	10-40-100-10	475-400-50-25	1⅜ x 2½	2.40
TVL-4806	10-10-80-50	475-450-200-60	1⅜ x 3	2.31
TVL-4809	25-20-20-100	475-450-300-50	1⅜ x 3	2.76
TVL-4811	10-60-30-125	475-450-400-50	1⅜ x 4	3.33
TVL-4813	10-50-30-30	475-450-450-25	1⅜ x 3	2.85
TVL-4815	15-15-80-40	475-475-300-50	1⅜ x 3	2.88
TVL-4817	40-10-4-40	475-475-350-300	1⅜ x 3	2.97
TVL-4819	10-5-80-40	475-475-450-50	1⅜ x 3½	2.94
TVL-4822	40-20-10-10	475-475-475-25	1⅜ x 3	2.91
TVL-4826	20-20-10-10	475-475-475-300	1⅜ x 2½	2.58
TVL-4827	50-30-10-20	475-475-475-300	1⅜ x 3½	3.36
TVL-4830	10-10-10-10	475-475-475-475	1⅜ x 2	2.10
TVL-4840	40-20-10-10	475-475-475-475	1⅜ x 3	3.06

JAN Type Capacitors by **SPRAGUE**

TYPE 65P PROKAR® CAPACITORS

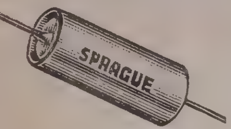


These Subminiature molded capacitors are unmatched. Used in miniaturized military electronics. Special impregnation gives excellent capacitance stability and high insulation resistance. Operating temperature range −55° C. to +85° C. at rated voltage. 200v. units may be used at 125° C. if derated to 150v. Tolerance, ±5%.

200 D.C. WORKING VOLTS

Sprague No.	Cap. Mfd.	Size, Inches		Net Each
		Diam.	Length	
65P10352	.01	.195	1 1/16	$1.20
65P15352	.015	.195	1 1/16	1.20
65P20352	.02	.250	1 1/16	1.35
65P22352	.022	.250	1 1/16	1.35
65P30352	.03	.250	1 1/16	1.35
65P33352	.033	.250	1 1/16	1.35
65P39352	.039	.375	1 1/16	1.50
65P47352	.047	.375	1 1/16	1.50
65P51352	.051	.375	1 1/16	1.50
65P56352	.056	.375	1 1/16	1.50
65P62352	.062	.375	1 1/16	1.50
65P82352	.082	.375	1 1/16	1.50
65P91352	.091	.375	1 1/16	1.50
65P10452	.1	.375	1 1/16	1.50
300 D.C. WORKING VOLTS				
65P10253	.001	.175	1 1/16	$1.20
65P15253	.0015	.175	1 1/16	1.20
65P20253	.002	.175	1 1/16	1.20
65P39253	.0034	.175	1 1/16	1.20
65P47253	.0047	.175	1 1/16	1.20
65P51253	.0051	.175	1 1/16	1.20
65P56253	.0056	.175	1 1/16	1.20
65P68253	.0068	.175	1 1/16	1.20
65P82253	.0082	.195	1 1/16	1.20
65P91253	.0091	.195	1 1/16	1.20

TYPE 96P VITAMIN Q SUBMINIATURES

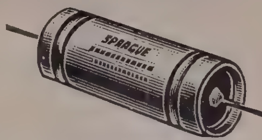


These Super-JAN capacitors are chosen for breadboard emergency needs. Designed for operation from −55° C. to +125° C. Tolerance on these glass-to-metal seal units is ±10%. Terminals insulated from case.

100 D.C. WORKING VOLTS

Sprague No. 96P-	Cap. Mfd.	Size, Inches		Net Each
		Diam.	Length	
10491S2	.10	.312	7/8	$3.04
47491S2	.47	.562	1 1/8	3.56
200 D.C. WORKING VOLTS				
10492S2	.10	.400	7/8	$3.17
47492S2	.47	.562	1 3/8	3.38
400 D.C. WORKING VOLTS				
10494S2	.10	.400	1 3/8	$3 43
22494S2	.22	.562	1 3/8	3.83
47494S2	.47	.670	1 7/8	4.42
600 D.C. WORKING VOLTS				
10296S2	.001	.235	3/4	$2.97
22296S2	.0022	.235	3/4	2.97
47296S2	.0047	.235	3/4	3.00
68296S2	.0068	.235	3/4	3.00
10396S2	.01	.312	7/8	3.10
22396S2	.022	.312	7/8	3.17
47396S2	.047	.400	1 1/8	3.33
68396S2	.068	.400	1 3/8	3.46
10496S2	.10	.562	1 1/8	3.70
22496S2	.22	.562	1 7/8	4.09
47496S2	.47	.750	2 1/8	4.78

JAN-C-25 TYPE CP26 OIL-FILLED METAL TUBULARS



These hermetically sealed units are mineral-oil impregnated to meet Char. E requirements for operation from −55° to +85° C. The section is insulated from the case and units have an outer plastic insulating tube.

200 D.C. WORKING VOLTS

Sprague SP-CP-	Cap. Mfd.	Size, In. Dia. x Lgth.	Net Each
26A1EC504K	.5	1 1/16x2 5/16	$1.56
600 D.C. WORKING VOLTS			
26A1EF602M	.006	1/2x1 5/16	.93
26A1EF103V	.01	1/2x1 5/16	.93
26A1EF203K	.02	1/2x1 13/16	1.08
26A1EF503K	.05	11/16x1 11/16	1.14

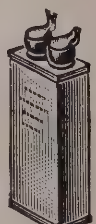
JAN-C-25 TYPE CP28 OIL-FILLED TUBULARS

Similar to Type CP26 units except for addition of radial mounting bracket. This is usually necessary for higher capacitance range tubulars.

600 D.C. WORKING VOLTS

Sprague SP-CP-	Cap. Mfd.	Size, In. Dia. x Lgth.	Net Each
28A1EF104K	.1	11/16x2 1/16	$1.29
28A1EF254K	.25	1 1/16x2 5/16	1.62
28A1EF504K	.5	1 1/16x2 13/16	1.98

JAN-C-25 TYPE CP61 RECTANGULARS



For cramped chassis and bread-board applications. The spade brackets may be mounted so terminals project through a chassis or are far above it, filling the functions of types CP63 and CP65. −55° C. to +85° C. operation. Silicone rubber terminal bushings. Can is grounded on dual units.

600 D.C. WORKING VOLTS

Sprague SP-CP-	Cap. Mfd.	Size*	Net Each
61B1EF503K	.05	A	$2.46
61B1EF104K	.1	B	2.64
61B1EF254K	.25	C	2.82
61B1EF504K	.5	D	3.00
61B1EF105K	1.0	E	3.39
61B6EF104V	.1, .1	C	3.30
61B6EF254V	.25, .25	D	3.39
61B6EF504V	.5, .5	E	3.90

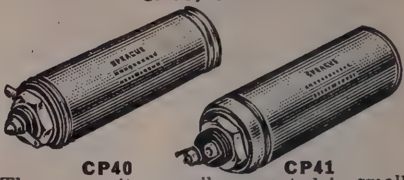
***DIMENSIONS:** **A**—1 5/16" x 5/8" x 1 1/16". **B**—1 5/16" x 5/8" x 1 3/8". **C**—1 5/16" x 5/8" x 1 5/8". **D**—1 5/16" x 5/8" x 2". **E**—1 5/16" x 5/8" x 2 3/4".

BRACKETS

Case Hgt.	Sprague No.	Case Hgt.	Sprague No.
1 1/16"	SP-CPO6SA1	2"	SP-CPO6SA4
1 3/8"	SP-CPO6SA2	2 3/4"	SP-CPO6SA6
1 5/8"	SP-CPO6SA3	.....	....

All brackets when ordered with capacitors. Net Each............**15c**

JAN-C-25 SCREW-BASE TYPES CP40, CP41

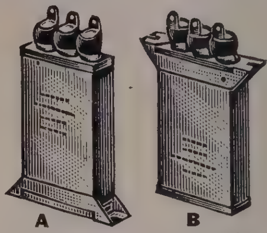


These capacitors easily mounted in small power supplies. Char. E mineral oil impregnation for −55° to +85° C. operation. Tolerance, ±10%. **Type CP40,** (Grounded Case.) Numbers CP40C2EF205K, 405K. Both others, **Type CP-41,** (Insulated Case)

600 D.C. WORKING VOLTS

Sprague SP-CP-	Cap. Mfd.	Size, In. Dia. x Lgth.	Net Each
40C2EF205K	2.0	1 1/2 x 3 3/8	$3.06
40C2EF405K	4.0	1 1/2 x 5 1/4	4.17
41B1EF205K	2.0	1 1/2 x 3 3/8	3.36
41B1EF405K	4.0	1 1/2 x 5 1/4	4.47

TYPE CP67 AND CP69 OIL-FILLED SMALL RECTANGULARS



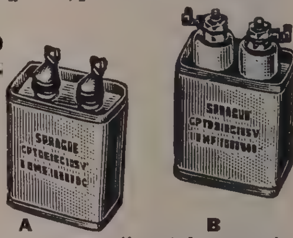
Channel-bracket mounting, impregnated with oil to meet Char. E requirements. Silicone rubber bushings for continued hermetic sealing. Tolerance of ±10% for either coupling or bypass applications.

TYPE CP-67—600 D.C. W.V. (A)

Sprague SP-CP-	Cap. Mfd.	Size*	Net Each
67B1EF104K	.1	A	$2.37
67B1EF254K	.25	B	2.55
67B1EF504K	.5	C	2.73
67B1EF105K	1.0	D	3.09
TYPE CP-69—600 D.C. W.V. (B)			
69B1EF503K	.05	A	$2.37
69B1EF104K	.1	A	2.37
69B1EF254K	.25	B	2.55
69B1EF504K	.5	C	2.73
69B1EF105K	1.0	D	3.09

***DIMENSIONS:** **A**—1 3/4" x 9/16" x 1 1/16". **B**—1 3/4" x 9/16" x 1 1/2". **C**—1 3/4" x 9/16" x 2" **D**—1 3/4" x 9/16" x 2 3/4".

TYPE CP70 "SQUEEZE-SEAM" OIL-FILLED UNITS



Soldered "squeeze-seam" metal case units popular for filter capacitors for power supplies. Oil-impregnated. −55° to +85° C. operation. Tolerance is ±10% for universal application. Grey paint finish.

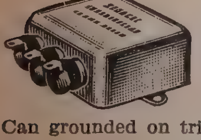
SILICONE RUBBER BUSHINGS (A)
600 D.C. WORKING VOLTS

Sprague SP-CP-	Cap. Mfd	Size *	Bracket†	Net Each
70B1EF205K	2	C	CPO7FA4	$4.98
70B1EF405K	4	E	CPO7FB4	6.39
70B1EF605K	6	H	CPO7FC2	8.01
70B1EF106K	10	G	CPO7FD3	10.77
1000 D.C. WORKING VOLTS (A)				
70B1EG504K	.5	A	CPO7FA2	$3.39
70B1EG105K	1.0	B	CPO7FA3	4.41
70B1EG205K	2.0	D	CPO7FA6	5.79
70B1EG405K	4.0	F	CPO7FC2	7.38
CERAMIC STANDOFF BUSHINGS (B) 1500 D.C. WORKING VOLTS				
70E1EH104K	.1	A	CPO7FA2	$3.96
70E1EH504K	.5	B	CPO7FA3	4.89
70E1EH105K	1.0	D	CPO7FA6	5.40

***DIMENSIONS:** A—1 13/16" x 1 1/16" x 2 1/4". **B**—1 13/16" x 1 1/16" x 2 7/8". **C**—1 13/16" x 1 1/16" x 3 1/4". **D**—1 13/16" x 1 1/16" x 4 3/4". **E**—2 1/2" x 1 5/16" x 3 7/8". **F**—3 3/4" x 1 1/4" x 3 7/8". **G**—3 3/4" x 1 3/4" x 4". **H**—3 3/4" x 1 1/4" x 4 5/8".

†All footed brackets when supplied with capacitors, per pair, Net Price 36c

JAN-C-25 TYPE CP53 "BATHTUB" CAPACITORS



Drawn-shell case units with silicone rubber side-terminal bushings. Meets Char. E requirements for operation under widest temperature changes. Can grounded on triple units.

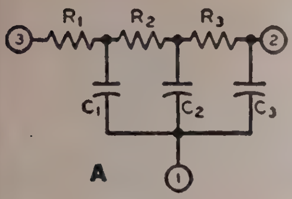
600 D.C. WORKING VOLTS

Sprague SP-CP-	Cap. Mfd.	Size*	Net Each
53B1EF104K	.1	A	$1.95
53B1EF254K	.25	A	2.04
53B1EF504K	.5	C	2.19
53B1EF105K	1.0	E	2.49
53B1EF205K	2.0	F	$3.30
53B4EF104V	.1- .1	A	2.46
53B4EF254V	.25- .25	C	2.49
53B4EF504V	.5- .5	E	2.85
53B5EF104V	.1-. 1- .1	D	2.76
1000 D.C. WORKING VOLTS			
53B1EG254K	.25	B	$2.16
53B1EG504K	.5	D	2.34
53B1EG105K	1.0	F	2.91
53B4EG254V	.25-.25	D	2.76

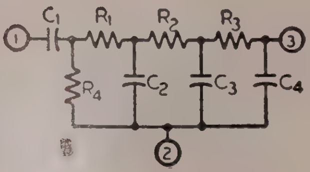
***DIMENSIONS:** A—1 13/16" x 1" x 3/4". **B**—1 13/16" x 1" x 7/8". **C**—1 13/16" x 1" x 1". **D**—2" x 1 3/4" x 7/8". **E**—2" x 1 3/4" x 1". **F**—2" x 2" x 1 1/8".

Printed Circuits, Filters by **SPRAGUE**

BULPLATE® PRINTED CIRCUITS



A



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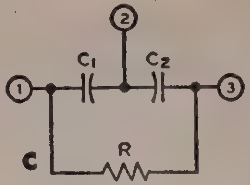

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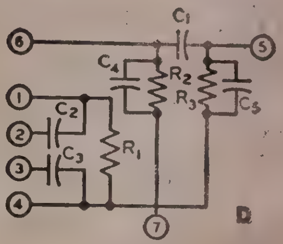

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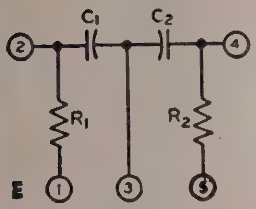

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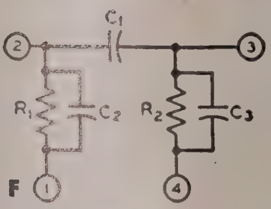

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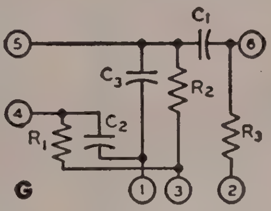
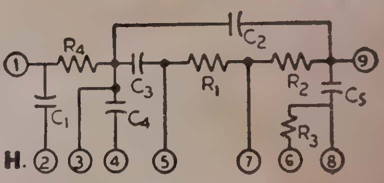
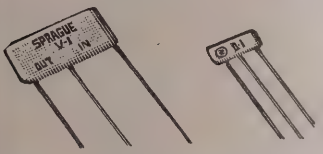


G



H.



- Capacitors are rated at 500 volts DC, 1000 volts test, while the maximum voltage to be applied across the resistors is 250 volts DC; except on Diode Filter D-1, where all elements are rated at 100 volts DC.

- Especially designed to save space and reduce assembly time.
- A combination of resistors and capacitors of maximum compactness.
- Integral connections are "printed" and brought out to external leads which are anchored to the basic ceramic plate.
- Completed unit is protected by a moisture-proof outer insulating coating.

VERTICAL INTEGRATOR (FIG. A)

Sprague Number	C_1 µf	C_2, C_3 µf	R_1 Ohms	R_2, R_3 Ohms	Net Each
V-1	.0022	.0047	22,000	8,200	66c

VERTICAL INTEGRATOR (FIG. B)

Sprague Number	C_1 µf	C_2 µf	C_3, C_4 µf	R_1, R_4 Ohms	R_2, R_3 Ohms	Net Each
V-2	.01	.002	.005	22,000	8,200	75c

DIODE FILTER (FIG. C)

Sprague Number	C_1 µf	C_2 µµf	R Ohms	Net Each
D-1	100	100	47,000	36c
D-2	150	150	47,000	
D-3	50	50	47,000	

AUDIO OUTPUT (FIG. D)

Sprague Number	C_1 µf	C_2 µf	C_3 µµf	C_4, C_5 µµf	R_1 Ohms	R_2, R_3 Ohms	Net Each
DT-1	.0047	.0022	220	220	6,800	470	60c
DT-2	.005	.005	220	220	6,800	470	69c

DECOUPLING FILTER (FIG. E)

Sprague Number	C_1 µf	C_2 µµf	R_1 Ohms	R_2 Ohms	Net Each
F-1	.0047	.0047	1000	820	51c
F-2	.0047	.0047	220	1000	

TRIODE COUPLING (FIG. F)

Sprague Number	C_1 µf	C_2+C_3 µµf	R_1 Ohms	R_2 Ohms	Net Each
T-1	.01	250	.5 Meg.	.5 Meg.	45c
T-2	.01	250	.25 Meg.	.5 Meg.	
T-3	.005	250	.5 Meg.	.5 Meg.	42c
T-4	.005	250	.25 Meg.	.5 Meg.	

PENTODE COUPLING (FIG. G)

Sprague Number	C_1 µf	C_2 µf	C_3 µµf	R_1 Meg.	R_2 Meg.	R_3 Meg.	Net Each
P-1	.0047	.0022	47	4.7	1.0	2.2	54c
P-2	.0047	.0022	100	4.7	1.0	2.2	
P-3	.0047	.005	100	4.7	1.0	2.2	60c

DETECTOR PENTODE COUPLING (FIG. H)

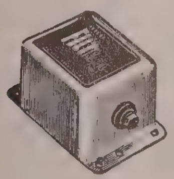
Sprague Number	C_1 µf	C_2, C_4 µµf	C_3 µf	C_5 µf	R_1 Meg.	R_2 Meg.	R_3 Meg.	R_4 Meg.	Net Ea.
DP-1	.002	150	.01	.005	4.7	1.0	3.3	10	75c

INTERFERENCE FILTERS

FILTEROL® TYPES

Type 1

Type 2



Type 3

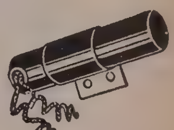
Type 4

- Types 1, 2, and 3—3-terminal network with case as one terminal . . . designed for connection in series with power supply lines to interference-producing devices. The selected filter should have a rating higher than the continuous operating current of the offending device. A single Filterol connected to the high side of the line is sufficient. In severe cases a Filterol in each leg of the power line may be necessary.
- Type 4—New, exclusive Sprague development . . . provides high attenuation at frequencies above 5 megs . . . intended for small devices with current ratings up to 20 amperes.

Sprague No.	Amps.	V AC or DC	Size Inches	Net
Type 1	1	115	7/8 x 1 1/4 x 1 3/4	$ 8.10
Type 2	10	115	1 1/8 x 2 x 2	8.88
Type 3	35	115	1 7/8 x 2 7/8 x 3 1/8	16.44
Type 4	20	115	1″ D. x 1 13/16 L.	1.83

IF TYPES

IF-15, 21, S1, 37



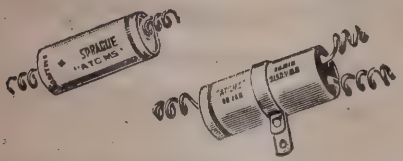
IF-11

- IF-15—For small motor-operated devices . . . designed to prevent accidental shocks from capacitor discharge. A triple-section filter for vacuum cleaners, fans, drills, etc.
- IF-11—Completely enclosed safety construction . . . for motors over 1 horsepower . . . also used on high-current arcing devices. A dual high-capacity filter that will operate up to 220 volts AC or DC.
- IF-21—For use across brushes of fractional HP motors . . . can grounds to motor frame. May also be used across line terminals of motors.
- IF-S1—For use across make-and-break contacts . . . can completely insulated. A single-section 2-lead filter.
- IF-37—Delta-connected filter designed for fluorescent fixtures . . . UL approved. 3-section delta-connected filter. Only one IF-37 is required for each offending fixture.

Sprague No.	V AC or DC	D. x L. In.	Net
IF-15	220	1 x 2 3/16	$1.56
IF-11	220	1 3/8 x 3 1/2	4.68
IF-21	220	1 x 2 3/16	1.05
IFS-1	220	3/4 x 2 1/16	.69
IF-37	220	1 x 2 7/16	1.35

Electrolytic Capacitors by SPRAGUE

ATOM® TUBULAR ELECTROLYTICS



- The smallest dependable dry electrolytic.
- Guaranteed to have low leakage and long shelf life.
- Will withstand extremely high temperatures, high ripple currents, high surge voltages.
- Easy to mount—will fit anywhere.
- Whether for crowded TV chassis, hot auto radios, jam-packed portables, or sizzling ac/dc boxes, Sprague Atoms fit them all.
- Will stand up under torrid 85° C. (185° F.) operating temperatures.

SINGLE UNITS

Cat. No.	Mfd. @ WVDC	D. x L. In.	Net
TVA-1100	50 @ 6	3/8 x 1 1/4	$0.57
TVA-1101	100 @ 6	1/2 x 1 1/8	0.72
TVA-1102	250 @ 6	5/8 x 1 7/16	.81
TVA-1103	500 @ 6	5/8 x 2 3/16	.93
TVA-1104	1000 @ 6	11/16 x 2 3/16	1.14
TVA-1105	1500 @ 6	13/16 x 2 11/16	1.26
TVA-1106	2000 @ 6	13/16 x 2 15/16	1.38
TVA-1130	100 @ 12	9/16 x 1 3/16	.72
TVA-1131	250 @ 12	5/8 x 1 11/16	.87
TVA-1132	500 @ 12	3/4 x 1 11/16	1.02
TVA-1133	1000 @ 12	13/16 x 2 3/16	1.35
TVA-1160	100 @ 15	5/8 x 1 3/16	.75
TVA-1161	250 @ 15	5/8 x 1 11/16	.93
TVA-1162	500 @ 15	11/16 x 2 3/16	1.05
TVA-1163	1000 @ 15	7/8 x 2 3/16	1.38
TVA-1201	2 @ 25	3/8 x 1 1/4	.54
TVA-1203	5 @ 25	3/8 x 1 1/8	.60
TVA-1204	10 @ 25	3/8 x 1 1/8	.60
TVA-1205	25 @ 25	3/8 x 1 1/8	.60
TVA-1206	50 @ 25	9/16 x 1 3/16	.66
TVA-1207	100 @ 25	9/16 x 1 11/16	.81
TVA-1208	250 @ 25	3/4 x 1 11/16	1.02
TVA-1209	500 @ 25	7/8 x 2 3/16	1.38
TVA-1300	1 @ 50	3/8 x 1 1/8	.54
TVA-1301	2 @ 50	3/8 x 1 1/8	.54
TVA-1303	5 @ 50	3/8 x 1 1/8	.60
TVA-1304	10 @ 50	3/8 x 1 1/8	.60
TVA-1306	25 @ 50	7/16 x 1 7/16	.63
TVA-1308	50 @ 50	9/16 x 1 11/16	.72
TVA-1310	100 @ 50	5/8 x 1 11/16	.84
TVA-1311	150 @ 50	3/4 x 1 11/16	.93
TVA-1312	250 @ 50	15/16 x 1 11/16	1.05
TVA-1402	4 @ 50	3/8 x 1 1/8	.60
TVA-1405	8 @ 150	3/8 x 1 5/8	.63
TVA-1406	10 @ 150	3/8 x 1 5/8	.63
TVA-1407	12 @ 150	3/8 x 1 5/8	.66
TVA-1409	16 @ 150	9/16 x 1 11/16	.69
TVA-1410	20 @ 150	9/16 x 1 11/16	.72
TVA-1412	30 @ 150	5/8 x 1 11/16	.78
TVA-1413	40 @ 150	3/4 x 1 11/16	.81
TVA-1414	50 @ 150	13/16 x 1 11/16	.84
TVA-1418	80 @ 150	7/8 x 1 15/16	.96
TVA-1420	100 @ 150	7/8 x 2 3/16	1.05
TVA-1422	150 @ 150	1 x 2 3/16	1.14
TVA-1501	4 @ 250	7/16 x 1 5/8	.60
TVA-1503	8 @ 250	1/2 x 1 5/8	.69
TVA-1504	10 @ 250	9/16 x 1 11/16	.72
TVA-1505	12 @ 250	9/16 x 1 11/16	.75
TVA-1507	16 @ 250	5/8 x 1 11/16	.78
TVA-1508	20 @ 250	11/16 x 1 11/16	.81
TVA-1510	30 @ 250	11/16 x 2 3/16	.87
TVA-1511	40 @ 250	3/4 x 2 3/16	.93
TVA-1601	4 @ 350	1/2 x 1 5/8	.63
TVA-1603	8 @ 350	5/8 x 1 11/16	.72
TVA-1604	10 @ 350	11/16 x 1 11/16	.75
TVA-1605	12 @ 350	11/16 x 1 11/16	.78
TVA-1607	16 @ 350	3/4 x 1 11/16	.84
TVA-1608	20 @ 350	13/16 x 1 11/16	$0.87
TVA-1610	30 @ 350	13/16 x 2 3/16	.99
TVA-1611	40 @ 350	7/8 x 2 7/16	1.05
TVA-1613	60 @ 350	1 x 2 7/16	1.17
TVA-1701	2 @ 450	7/16 x 1 5/8	.66
TVA-1702	4 @ 450	9/16 x 1 11/16	.69
TVA-1704	8 @ 450	11/16 x 1 11/16	.75
TVA-1705	10 @ 450	11/16 x 1 11/16	.78
TVA-1706	12 @ 450	3/4 x 1 11/16	.81
TVA-1708	16 @ 450	3/4 x 2 3/16	.84
TVA-1709	20 @ 450	3/4 x 2 3/16	.93
TVA-1711	30 @ 450	7/8 x 2 3/16	1.02
TVA-1712	40 @ 450	7/8 x 2 11/16	1.08
TVA-1713	50 @ 450	7/8 x 3 3/16	1.26
TVA-1716	80 @ 450	1 x 3 11/16	1.68
TVA-1802	10 @ 475	3/4 x 1 15/16	.81
TVA-1804	20 @ 475	7/8 x 2 7/16	.96
TVA-1902	8 @ 500	7/8 x 1 11/16	.78
TVA-1905	16 @ 500	15/16 x 2 3/16	.90
TVA-1906	20 @ 500	1 x 2 3/16	.96

DUAL UNITS

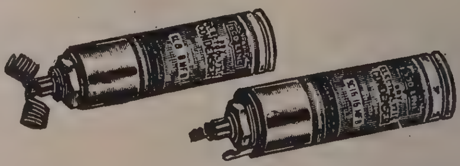
TVA-2210	10+10 @ 25	7/8 x 1 7/16	$0.84
TVA-2315	10+10 @ 50	7/8 x 1 7/16	.84
TVA-2415	8+ 8 @ 150	7/8 x 1 7/16	.90
TVA-2420	16+16 @ 150	7/8 x 1 7/16	1.08
TVA-2425	20+12 @ 150	7/8 x 1 7/16	.96
TVA-2428	20+20 @ 150	7/8 x 1 7/16	.99
TVA-2421	30+20 @ 150	7/8 x 1 11/16	1.02
TVA-2434	30+30 @ 150	7/8 x 1 11/16	1.08
TVA-2438	40+20 @ 150	7/8 x 1 11/16	1.05
TVA-2442	40+30 @ 150	7/8 x 1 15/16	1.08
TVA-2445	40+40 @ 150	7/8 x 1 15/16	1.11
TVA-2450	50+30 @ 150	7/8 x 1 15/16	1.17
TVA-2453	50+50 @ 150	7/8 x 2 7/16	1.26
TVA-2460	80+30 @ 150	7/8 x 2 7/16	1.32
TVA-2515	20+20 @ 250	7/8 x 1 15/16	1.11
TVA-2520	40+10 @ 250	7/8 x 2 3/16	1.23
TVA-2525	80+10 @ 250	15/16 x 3 3/16	1.53
TVA-2720	8+ 8 @ 450	7/8 x 1 11/16	1.02
TVA-2722	10+10 @ 450	7/8 x 1 15/16	1.11
TVA-2725	16+ 8 @ 450	7/8 x 2 3/16	1.20
TVA-2730	20+20 @ 450	7/8 x 2 15/16	1.50
TVA-2735	30+30 @ 450	1 x 3 3/16	1.80
TVA-2740	40+40 @ 450	1 x 3 15/16	2.04

TRIPLE UNITS

TVA-3415	20+20 @ 150/20 @ 25	7/8 x 2 3/8	1.23
TVA-3419	30+30 @ 150/100 @ 12	7/8 x 2 7/8	1.38
TVA-3423	40+30 @ 150/20 @ 25	7/8 x 2 7/8	1.32
TVA-3427	40+40 @ 150/100 @ 25	15/16 x 3 3/8	1.47
TVA-3430	50+30 @ 150/20 @ 25	15/16 x 2 7/8	1.41
TVA-3433	50+30 @ 150/200 @ 25	1 x 3 3/8	1.65
TVA-3436	50+50 @ 150/20 @ 25	1 x 2 7/8	1.50
TVA-3440	20+20+20 @ 150	15/16 x 2 3/8	1.32
TVA-3444	30+30+30 @ 150	1 x 2 7/8	1.41
TVA-3448	40+30+20 @ 150	1 x 2 5/8	1.41
TVA-3451	40+40+40 @ 150	7/8 x 3 7/8	1.47
TVA-3455	80+40+20 @ 150	1 x 3 7/8	1.65
TVA-3716	12+12 @ 450/20 @ 25	1 x 2 7/8	1.38

SCREWBASE ELECTROLYTICS

- Small size, high quality etched foil construction.
- Designed for inverted mounting above chassis.
- Aluminum cans with threaded bushing and locknut at one end. Cans completely insulated from capacitor sections.
- Will withstand high A-C ripples and high surge voltages.
- For "extra tough" applications where high peaks may occur.



TYPE PLS—450 WVDC

Cat. No.	Mfd.	D. x L. In.	Net
PLS-4	4	1 3/8 x 2 7/16	$1.20
PLS-8	8	1 3/8 x 2 7/16	1.32
PLS-12	12	1 3/8 x 2 7/16	1.44
PLS-16	16	1 3/8 x 2 7/16	1.47
PLS-20	20	1 3/8 x 2 7/16	1.62
PLS-25	25	1 5/8 x 3 7/16	1.74
PLS-30	30	1 3/8 x 3 7/16	1.80
PLS-40	40	1 3/8 x 3 15/16	1.89
PLS-48	4+8	1 3/8 x 2 15/16	1.77
PLS-88	8+8	1 1/2 x 2 15/16	1.80
PLS-816	8+16	1 1/2 x 2 15/16	1.98
PLS-216	16+16	1 1/2 x 3 15/16	2.13
PLS-888	8+8+8	1 1/2 x 2 15/16	3.00

TYPE LS—450 WVDC

Cat. No.	Mfd.	D. x L. In.	Net
LS-8	8	1 3/8 x 2 15/16	$1.32
LS-12	12	1 3/8 x 2 15/16	1.44
LS-16	16	1 3/8 x 2 15/16	1.47
LS-20	20	1 3/8 x 2 15/16	1.62
LS-25	25	1 3/8 x 3 7/16	1.74
LS-30	30	1 3/8 x 3 7/16	1.80
LS-40	40	1 3/8 x 3 15/16	1.89
LS-83	8+8	1 3/8 x 2 1/4	1.80

TYPE SC—475 WVDC

SC-4	4	1 x 3 7/16	1.53
SC-8	8	1 3/8 x 4 7/16	1.65
SC-12	12	1 3/8 x 4 7/16	1.77
SC-16	16	1 1/2 x 4 7/16	1.89
SC-88	8+8	1 3/8 x 4 1/4	2.46

TYPE CL—475 WVDC

Cat. No.	Mfd.	D. x L. In.	Net
CL-8	8	1 3/8 x 4 7/16	$1.65
CL-16	16	1 1/2 x 4 7/16	1.89
CL-88	8+8	1 1/2 x 4 15/16	2.46

TYPE WR—500 WVDC

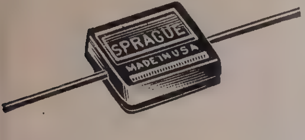
WR-8	8	1 3/8 x 3 15/16	1.71
WR-16	16	1 3/8 x 4 7/16	1.98
WR-25	25	1 1/2 x 5 7/16	2.25

TYPE AP—600 WVDC

AP-46	4	1 x 4 7/16	1.77
AP-86	8	1 3/8 x 4 7/16	1.89
AP-16	16	1 1/2 x 4 7/16	2.25

Mica Capacitors by SPRAGUE

TYPES MS AND 1FM



TYPE MS—Silvered Mica

(Std. Capacity Tolerance ±5%)

500 WVDC

Cat. No.	Mfd.	Net
MS-55	.000005	$0.27
MS-41	.00001	.24
MS-415	.000015	.24
MS-42	.00002	.24
MS-425	.000025	.24
MS-43	.00003	.24
MS-44	.00004	.24
MS-45	.00005	.24
MS-46	.00006	.24
MS-47	.00007	.24
MS-31	.0001	.24
MS-32	.0002	.27
MS-33	.0003	.33
MS-34	.0004	.39
MS-35	.0005	.42
MS-36	.0006	.48
MS-37	.0007	.51
MS-38	.0008	.57
MS-39	.0009	.60
MS-21	.001	.66
MS-22	.002	.81
MS-23	.003	1.23
MS-24	.004	1.29
MS-25	.005	1.35
MS-26	.006	1.44

300 WVDC

MS-27	.007	1.56
MS-28	.008	1.68
MS-29	.009	1.86
MS-11	.01	2.04

TYPE 1FM

(Std. Cap. Tolerance ±20%)

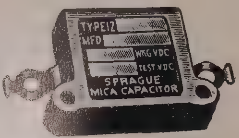
500 WVDC

Cat. No.	Mfd.	Net
1FM-41	.00001	$0.15
1FM-42	.00002	.15
1FM-44	.00004	.15
1FM-45	.00005	.12
1FM-475	.000075	.12
1FM-31	.0001	.12
1FM-315	.00015	.12
1FM-32	.0002	.12
1FM-325	.00025	.15
1FM-335	.00035	.15
1FM-34	.0004	.15
1FM-35	.0005	.15
1FM-37	.0007	.15
1FM-21	.001	.18
1FM-215	.0015	.18
1FM-22	.002	.24
1FM-23	.003	.30
1FM-24	.004	.33
1FM-25	.005	.36
1FM-26	.006	.39

300 WVDC

1FM-27	.007	.51
1FM-28	.008	.60
1FM-29	.009	.60
1FM-11	.01	.72

TYPES XFM, YFM, ZFM



(Std. Cap. Tolerance ±10%)

XFM—600 WVDC

Cat. No.	Mfd.	Net
XFM-45	.00005	$0.72
XFM-31	.0001	.72
XFM-32	.0002	.72
XFM-325	.00025	.72
XFM-33	.0003	.72
XFM-34	.0004	.72
XFM-35	.0005	.72
XFM-21	.001	.72
XFM-215	.0015	.72
XFM-22	.002	.78
XFM-225	.0025	.78
XFM-23	.003	.87
XFM-24	.004	.90
XFM-25	.005	.93
XFM-26	.006	1.08
XFM-27	.007	1.11
XFM-28	.008	1.14
XFM-11	.01	1.29
XFM-12	.02	1.83
XFM-13	.03	2.67

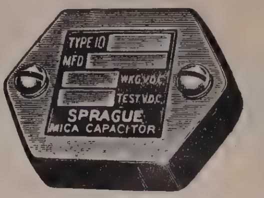
YFM—1200 WVDC

YFM-45	.00005	.96
YFM-31	.0001	.96
YFM-32	.0002	.96
YFM-325	.00025	.96
YFM-33	.0003	.96
YFM-34	.0004	.96
YFM-35	.0005	.96
YFM-21	.001	1.08
YFM-215	.0015	1.38
YFM-22	.002	1.44
YFM-225	.0025	1.68
YFM-23	.003	1.83
YFM-24	.004	1.83
YFM-25	.005	1.98
YFM-26	.006	1.98
YFM-27	.007	2.07
YFM-28	.008	2.31
YFM-11	.01	3.06

ZFM—2500 WVDC

ZFM-45	.00005	1.14
ZFM-31	.0001	1.14
ZFM-32	.0002	1.14
ZFM-325	.00025	1.32
ZFM-33	.0003	1.35
ZFM-34	.0004	1.38
ZFM-35	.0005	1.44
ZFM-21	.001	1.68
ZFM-215	.0015	2.13
ZFM-22	.002	2.49
ZFM-23	.003	2.94
ZFM-24	.004	3.39
ZFM-25	.005	3.84

TYPES 7FM, 8FM, 9FM



(Std. Cap. Tolerance ±10%)

7FM—600 WVDC

Cat. No.	Mfd.	Net
7FM-45	.00005	$0.87
7FM-31	.0001	.87
7FM-315	.00015	.87
7FM-32	.0002	.87
7FM-325	.00025	.87
7FM-35	.0005	.87
7FM-21	.001	.87
7FM-22	.002	.99
7FM-225	.0025	1.02
7FM-23	.003	1.11
7FM-24	.004	1.20
7FM-25	.005	1.26
7FM-26	.006	1.32
7FM-28	.008	1.47
7FM-11	.01	1.68
7FM-115	.015	1.83
7FM-12	.02	2.13
7FM-13	.03	2.73
7FM-14	.04	3.51
7FM-15	.05	4.26
7FM-16	.06	4.83

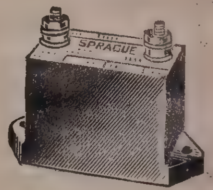
8FM—1200 WVDC

8FM-45	.00005	.96
8FM-31	.0001	.96
8FM-315	.00015	.96
8FM-32	.0002	.96
8FM-325	.00025	.96
8FM-35	.0005	.96
8FM-21	.001	1.14
8FM-22	.002	1.50
8FM-225	.0025	1.68
8FM-23	.003	1.77
8FM-24	.004	1.86
8FM-25	.005	1.98
8FM-26	.006	2.07
8FM-28	.008	2.46
8FM-11	.01	2.82
8FM-115	.015	3.48
8FM-12	.02	4.23
8FM-125	.025	4.74
8FM-13	.03	4.86

9FM—2500 WVDC

9FM-45	.00005	1.14
9FM-31	.0001	1.14
9FM-325	.00025	1.29
9FM-35	.0005	1.53
9FM-21	.001	1.74
9FM-22	.002	2.55
9FM-225	.0025	2.76
9FM-23	.003	3.06
9FM-24	.004	3.39
9FM-25	.005	3.72
9FM-26	.006	3.81
9FM-28	.008	4.11
9FM-11	.01	4.38
9FM-115	.015	4.83

TYPES 1MC AND 2MC



(Std. Capacity Tolerance ±5%)

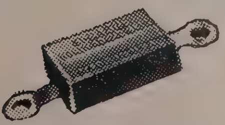
TYPE 1MC

Cat. No.	Mfd.	Peak VAC	Net
1MC-45	.00005	3000	$7.56
1MC-31	.0001	3000	7.56
1MC-315	.00015	3000	7.56
1MC-32	.0002	3000	7.56
1MC-325	.00025	3000	7.56
1MC-33	.0003	3000	7.56
1MC-34	.0004	3000	7.56
1MC-35	.0005	3000	7.56
1MC-36	.0006	3000	7.56
1MC-37	.0007	3000	7.56
1MC-38	.0008	3000	7.56
1MC-21	.001	3000	7.56
1MC-215	.0015	3000	7.56
1MC-22	.002	3000	7.56
1MC-23	.003	2000	7.56
1MC-24	.004	2000	7.56
1MC-25	.005	2000	7.56
1MC-26	.006	2000	7.56
1MC-27	.007	2000	7.56
1MC-28	.008	1500	7.56
1MC-11	.01	1000	7.56
1MC-115	.015	1000	7.56
1MC-12	.02	1000	8.58
1MC-13	.03	500	8.58
1MC-14	.04	500	8.58
1MC-15	.05	250	8.58
1MC-1	.1	250	9.06

TYPE 2MC

2MC-45	.00005	5000	10.38
2MC-31	.0001	5000	10.38
2MC-315	.00015	5000	10.38
2MC-32	.0002	5000	10.38
2MC-325	.00025	5000	10.38
2MC-33	.0003	5000	10.38
2MC-34	.0004	5000	10.38
2MC-35	.0005	5000	10.38
2MC-36	.0006	5000	10.38
2MC-37	.0007	5000	10.38
2MC-38	.0008	5000	10.38
2MC-21	.001	5000	10.38
2MC-215	.0015	5000	10.38
2MC-22	.002	5000	10.38
2MC-23	.003	3000	10.38
2MC-24	.004	3000	10.38
2MC-25	.005	3000	10.38
2MC-26	.006	3000	10.38
2MC-27	.007	3000	10.38
2MC-28	.008	2000	10.38
2MC-11	.01	2000	10.38
2MC-115	.015	2000	10.38
2MC-12	.02	2000	10.38
2MC-13	.03	1500	10.38
2MC-14	.04	1500	10.38
2MC-15	.05	1500	10.38
2MC-16	.06	1000	11.16
2MC-17	.07	1000	11.16
2MC-18	.08	500	11.52
2MC-1	.1	500	11.52

TYPES 3AFM AND 3CFM



(Std. Cap. Tolerance ±10%)

3AFM—300 WVDC

Cat. No.	Mfd.	Net
3AFM-25	.005	$0.39
3AFM-26	.006	.42
3AFM-27	.007	.57
3AFM-28	.008	.66
3AFM-11	.01	.78
3AFM-115	.015	.81

3CFM—1000 WVDC

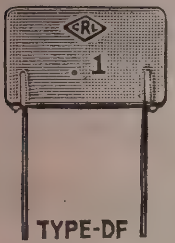
Cat. No.	Mfd.	Net
3CFM-45	.00005	.60
3CFM-31	.0001	.60
3CFM-32	.0002	.60
3CFM-325	.00025	.60
3CFM-33	.0003	.60
3CFM-34	.0004	.60
3CFM-35	.0005	.60
3CFM-21	.001	.75
3CFM-215	.0015	.90
3CFM-22	.002	.90
3CFM-225	.0025	.90

MICA CAPACITOR SIZES

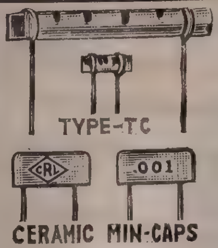
Cat. Nos.	L. x W. x T. In.
MS55—MS35	21/32 x 13/32 x 7/32
MS36—MS23	25/32 x 25/32 x 9/32
MS24—MS28	25/32 x 25/32 x 11/32
MS29—MS11	1 x 5/8 x 5/16
1FM44—1FM35	51/64 x 15/32 x 7/32
1FM37—1FM23	53/64 x 53/64 x 9/32
1FM24—1FM28	53/64 x 53/64 x 11/32
1FM29—1FM11	1 x 5/8 x 5/16
3AFM Types	1 x 5/8 x 5/16
3CFM Types	1 x 5/8 x 5/16
XFM45—XFM11	1 5/8 x 1 1/8 x 11/32
XFM12—XFM13	1 5/8 x 1 1/8 x 7/16

Cat. Nos.	L. x W. x T. In.
YFM45—YFM24	1 5/8 x 1 1/8 x 11/32
YFM25—YFM11	1 5/8 x 1 1/8 x 7/16
ZFM45—ZFM22	1 5/8 x 1 1/8 x 11/32
ZFM23—ZFM25	1 5/8 x 1 1/8 x 7/16
7FM45—7FM13	1 3/4 x 1 5/16 x 7/16
7FM14—7FM16	1 3/4 x 1 5/16 x 3/4
8FM45—8FM115	1 3/4 x 1 5/16 x 7/16
8FM12—8FM13	1 3/4 x 1 5/16 x 3/4
9FM45—9FM26	1 3/4 x 1 5/16 x 7/16
9FM28—9FM115	1 3/4 x 1 5/16 x 3/4
1MC Types	2 x 15/16 x 1 19/32
2MC Types	2 1/4 x 1 1/4 x 1 13/16

Centralab Ceramic Capacitors

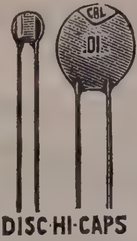


TYPE-DF

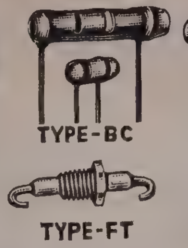


TYPE-TC

CERAMIC MIN-CAPS

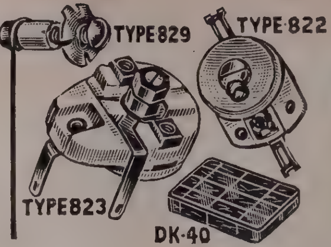


DISC·HI-CAPS



TYPE-BC

TYPE-FT

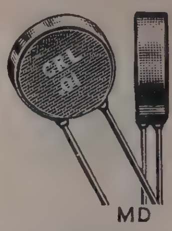


TYPE 829

TYPE 822

TYPE 823

DK-40



MD

TYPE DF FLAT-PLATE HI-KAPS

A dependable 600 volt ceramic capacitor recommended for general replacement applications where their unusual thinness makes them useful. The 3 types listed below are 1 9/32″ long x 27/32″ high.

CRL No.	Cap. Mfd.	Thickness	Net Each
DF-503	.05	3/32″	42c
DF-104	.1	1/8″	48c

TRIMMER CAPACITORS

Type 827—17/32″ x 3/4″. Net Each.... **60c**
Type 822—27/32″ x 21/32″. Net Each.... **90c**
Type 823—1 1/4″ x 1 15/16″. Net Each. **$1.50**
Type 829—Body .215″ dia. Types 829-7 and 829-10. Net Each.............. **36c**
All other 829 series Net Each....... **30c**

All numbers listed below ending in Z, zero temperature coefficient. Numbers ending in N are negative, temperature coefficient.

CRL No.	Range μμf	CRL No.	Range μμf
827A	2.5-7	823-EZ	5.-12
827B	3.0-12	823-DZ	6.-25
827C	5.0-30	823-BZ	10.-50
827D	8.0-50	823-AZ	12.-60
822-DZ	1.5-3	823-EN	8.-25
822-EZ	1.5-7	823-DN	8.-50
822-CZ	2.0-7.5	823-BN	10.-100
822-BZ	2.5-13.0	823-AN	20.-125
822-AZ	4.5-25	829-3	.5-3
822-DN	2.0-6.0	829-4	1.-4
822-CN	4.5-25	829-6	1.-6
822-BN	7.0-45	829-7	1.-7.5
822-AN	8.0-50	829-10	1.5-10

FLAT-PLATE MIN-KAPS

150 V. D. C. W., 300 V. D. C. test. Size: 17/32″ x 7/32″ x 7/64″.

CRL No.	Cap. Mfd.	Tolerance	Net Each
DM-101	.0001	−20% +50%	21c
DM-201	.0002	−20% +50%	
DM-301	.0003	−20% +50%	
DM-501	.0005	−20% +50%	
DM-102	.001	−20% +50%	
DM-202	.002	−20% +50%	27c
DM-2024	.002	GMV	39c
DM-302	.003	−20% +80%	27c
DM-502	.005	−20% +50%	27c
DM-103	.01	−20% +50%	39c
DM2-502	2x.005	−20% +50%	39c

TYPE MD MOLDED DISC CERAMIC HI-KAPS

Molded disc ceramics feature highest breakdown to ground, high lead strength, high resistance to mechanical damage. 1,000 VDCW to 4,000 mmf., over 4,000 mmf. 600 VDCW. Tolerance ±10% 5 mmf to 680 mmf., ±20% 750 mmf to 3,300 mmf. 85° C. operating temperature. Ratings marked on units. Size 11/16″ dia., 3/16″ thick.
Net Each........................... **18c**

CRL No.	Cap. mmf.	CRL No.	Cap. mmf.
MD-050	5	MD-251	250
MD-100	10	MD-271	270
MD-120	12	MD-301	300
MD-150	15	MD-331	330
MD-180	18	MD-391	390
MD-200	20	MD-401	400
MD-220	22	MD-471	470
MD-250	25	MD-501	500
MD-270	27	MD-561	560
MD-330	33	MD-601	600
MD-390	39	MD-681	680
MD-470	47	MD-751	750
MD-500	50	MD-821	820
MD-560	56	MD-102	1000
MD-680	68	MD-122	1200
MD-750	75	MD-152	1500
MD-820	82	MD-182	1800
MD-101	100	MD-202	2000
MD-121	120	MD-222	2200
MD-151	150	MD-252	2500
MD-181	180	MD-272	2700
MD-201	200	MD-302	3000
MD-221	220	MD-332	3300

TC TEMPERATURE COMPENSATING TUBULARS

TCZ units are negative-positive-zero (NPO) type. TCN units are temperature compensating, N750 type, giving a negative change of 750 parts per million per degree C. 1,200v. DC test; 600v. DC.

TYPE TCZ HI-KAP TUBULARS

These units are available in **Type TCZ** only.

CRL	μμf	Toler.	Net
TCZ-.5	.5	±.25 μμf	30c
TCZ-.68	.68	±.25 μμf	
TCZ-1	1.	±.25 μμf	
TCZ-1.5	1.5	±.25 μμf	
TCZ-2.2	2.2	±.25 μμf	
TCZ-3.3	3.3	±.25 μμf	
TCZ-4.7	4.7	±.5 μμf	30c
TCZ-6.8	6.8	±.5 μμf	

TYPES TCZ-TCN HI-KAP TUBULARS

These units available both in Type TCZ and TCN. Specify type when ordering.

TCZ-N-10	10.	±.5μμf	30c
TCZ-N-12	12.		
TCZ-N-15	15.		
TCZ-N-18	18.		
TCZ-N-20	20.		
TCZ-N-22	22.	±2½%	30c
TCZ-N-24	24.		
TCZ-N-25	50.		
TCZ-N-27	27.		
TCZ-N-30	30.		
TCZ-N-33	33.		
TCZ-N-36	36.		
TCZ-N-39	39.		
TCZ-N-43	43.		
TCZ-N-47	47.		
TCZ-N-50	25.		
TCZ-N-51	51.		
TCZ-N-56	56.		
TCZ-N-62	62.		
TCZ-N-68	68.		
TCZ-N-75	75.		
TCZ-N-82	82.		
TCZ-N-91	91.		
TCZ-N-100	100.		
TCZ-N-110	110.	±5%	30c
TCZ-N-120	120.		
TCZ-N-130	130.		
TCZ-N-150	150.		
TCZ-N-160	160.		
TCZ-N-180	180.		
TCZ-N-200	200.		
TCZ-N-220	220.		
TCZ-N-240	240.		
TCZ-N-270	270.		
TCZ-N-300	300.		

TYPE TCN HI-KAP TUBULARS

These units are available in **Type TCN** only.

CRL	μμf	Toler.	Net
TCN-5	5.	±5%	30c
TCN-330	330.		
TCN-360	360.		
TCN-390	390.		
TCN-430	430.		
TCN-470	470.		
TCN-510	510.		
TCN-560	560.		
TCN-620	620.		
TCN-680	680.		
TCN-750	750.		

FT FEED-THROUGH HI-KAPS

Voltage Rating—600 V. D. C. W., 1000 V. D. C. Flash. **Terminals**—Both ends hooked. **Mounting**—Nut furnished.

CRL	μμf	Tolerance	Net
FT-500	500	±20%	60c
FT-1000	1000	±20%	
FT-1500	1500	—20% +50%	
FT-1800	1800	−20% +50%	
FT-2300	2300	−20% +50%	

Type MFT—1/4″ max. flange diam. eyelet is inserted in .160″ diam. hole and soldered directly to chassis.

MFT-50	50	±10%	30c
MFT-100	100	±10%	
MFT-500	500	±20%	
MFT-1000	1000	G.M.V.	

BC HI-KAP TUBULARS

600 VDCW, 1000 V. peak, ±20%, through .0022 mfd. GMV from .0025 to .01 mfd. Operating temperature 85° C. Tropicalized. Minimum order quantity 5.

Size A—Dia. .230″ x .475″ long. Net.. **12c**

CRL D6-	Cap. μμfd.	CRL D6-	Cap. μμfd.	CRL D6-	Cap. μμfd.
030	3	500	50	301	300
050	5	560	56	331	330
100	10	680	68	391	390
120	12	750	75	401	400
150	15	820	82	471	470
180	18	910	91	501	500
200	20	101	100	561	560
220	22	121	120	601	600
250	25	151	150	681	680
270	27	181	180	751	750
330	33	201	200	821	820
390	39	221	220	102	1000
400	40	251	250	......	.....
470	47	271	270	......	.....

Size B—Dia. .230″ x .750″. Net Each. **12c**

122	1200	202	2000	272	2700
152	1500	222	2200	302	3000
182	1800	252	2500	......	.....

Size C—Dia. .255″ x .885″. Net Each. **12c**

332	3300	472	4700	......	.....
402	4000	502	5000	......	.....

Size D—Dia. .310″ x 1.180″. Net Ea.. **12c**

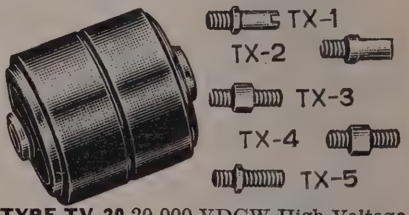
562	5600	752	7500	......	.....
682	6800	103	10000	......	.....

TV HI-VO KAPS

Exact body sizes 501, 1″ dia. x .510″. 502, 1″ dia. x 1.050″, 503, 1.4″ dia. x 1.250″. Terminals—A: plain studs. B: One slotted 1/16″ wide x 1/16″ deep, other tapped 6-32, 1/4″ deep. C: Screw terminals male 6-32 x 1/4″; female 6-32 x 1/4″; D; Two-male threaded term. E: Two female threaded term. Capacity tolerance −20% +50%. F: 1 8-32 thread, 16-32 thread. G: 2 8-32 thread.

CRL No.	Cap. μμf	V. D. C. W.	Terminal	Net Each
TV1-501	500	10,000	A	60c
TV2-501	500	10,000	B	
TV3-501	500	10,000	C	
TV1-502	500	20,000	A	90c
TV2-502	500	20,000	B	
TV3-502	500	20,000	C	
TV1-503	500	30,000	A	$1.80
TV4-502	500	20,000	D	90c
TV5-502	500	20,000	E	
TV7-502	500	48,000	F	
TV8-503	500	30,000	G	$1.80

PRECISION ATTACHABLE TERMINAL HI-VO KAPS

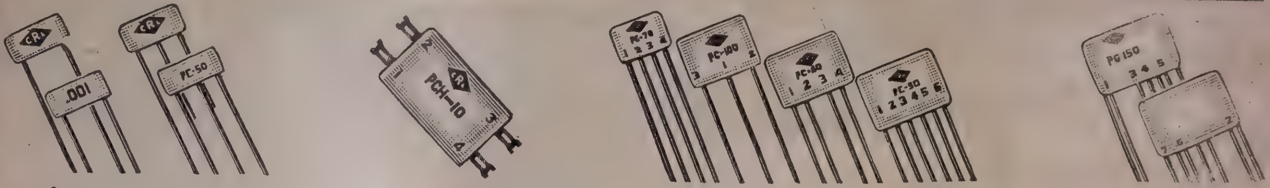


TYPE TV-20 20,000 VDCW High Voltage Ceramic Capacitors. 40,000 VDCT. Capacity 500 mmf. Terminals will not pull out or break off. Five different type terminals available as listed below.
Type TV-20 Capacitor—Net Each.. **90c**

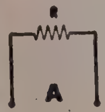
ATTACHABLE TERMINALS

Term. No.	Type	Thread	Net Each
TX-1	Slotted Rod	....	6c
TX-2	Female Tap	6–32	
TX-3	Male Thread	6–32	
TX-4	Short Male	8–32	
TX-5	Long Male	8–32	

Centralab Printed Electronic Circuits



.001
PC-50
PCH-10
PC-70
PC-100
PC-80
PC-90
PC 150



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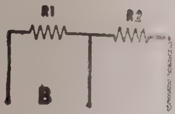

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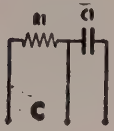

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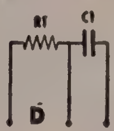

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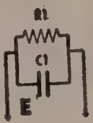

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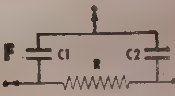

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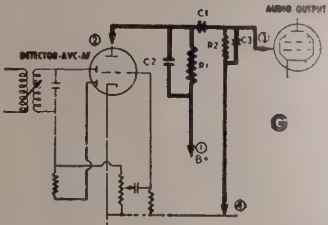
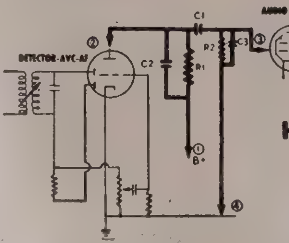


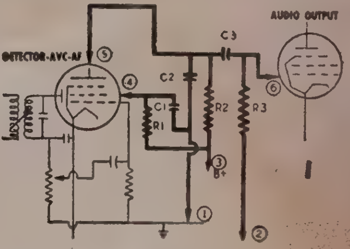
DETECTOR-AVC-AF
AUDIO OUTPUT
C1
C2
C3
R1
R2
B+

G



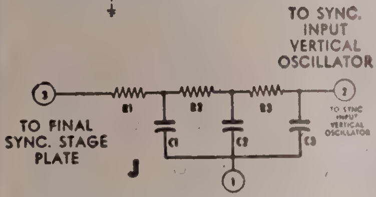
DETECTOR-AVC-AF
AUDIO OUTPUT
C1
C2
C3
R1
R2
B+

H



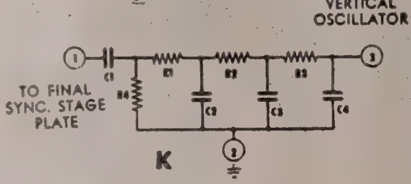
DETECTOR-AVC-AF
AUDIO OUTPUT
C1
C2
C3
R1
R2
R3
B+

I



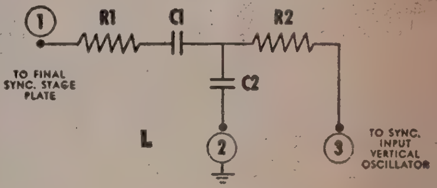
TO SYNC. INPUT VERTICAL OSCILLATOR
TO FINAL SYNC. STAGE PLATE
R1
R2
R3
C1
C2
C3
TO SYNC INPUT VERTICAL OSCILLATOR

J



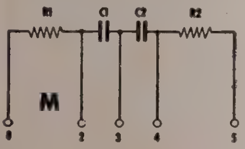
TO SYNC. INPUT VERTICAL OSCILLATOR
TO FINAL SYNC. STAGE PLATE
C1
R1
R2
R3
R4
C2
C3
C4

K



R1
C1
R2
C2
TO FINAL SYNC. STAGE PLATE
TO SYNC. INPUT VERTICAL OSCILLATOR

L



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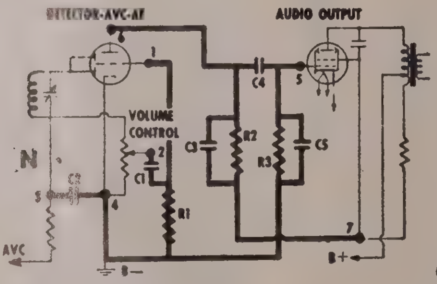
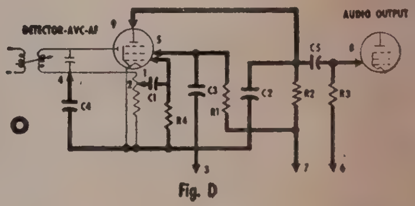


DETECTOR-AVC-AF
AUDIO OUTPUT
VOLUME CONTROL
C1
C2
C3
C4
C5
R1
R2
R3
AVC
B−
B+

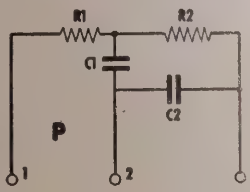
N



DETECTOR-AVC-AF
AUDIO OUTPUT
C1
C2
C3
C4
C5
R1
R2
R3
R4

O

Fig. D



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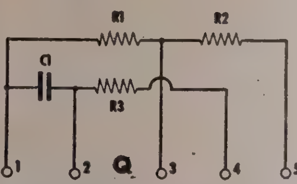

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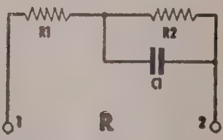

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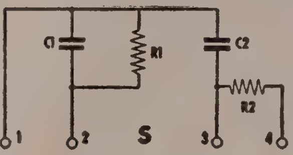

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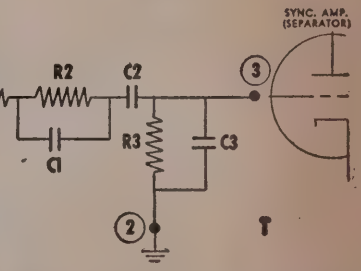


SYNC. AMP. (SEPARATOR)
R1
R2
C2
C1
R3
C3

T

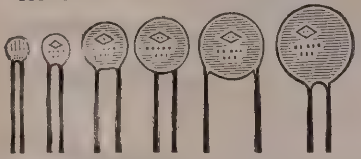
CRL No.	Fig.	Description	R1	R2	R3	R4	C1	C2	C2+C3	C3	C3+C5	C4	C5	Net
PC-2	A	Single Resistor	2 meg	......	......	......	......	......	......	......	......	......	......	$0.21
PC-21	B	Dual Resistor	500K	110K	......	......	......	......	......	......	......	......	......	.30
PC-30	C	Resistor-Capacitor	240K	......	......	......	1000 μμf	......	......	......	......	......	......	.30
PC-33	D	Resistor-Capacitor	1 meg	......	......	......	1000 μμf	......	......	......	......	......	......	.30
PC-36	E	Resistor-Capacitor	100K	......	......	......	100 μμf	......	......	......	......	......	......	.30
PC-50	F	Filpec‡	47K	......	......	......	100 μμf	100 μμf	......	......	......	......	......	.36
PC-51	F	Filpec‡	47K	......	......	......	150 μμf	150 μμf	......	......	......	......	......	.36
PC-52	F	Filpec‡	47K	......	......	......	50 μμf	50 μμf	......	......	......	......	......	.36
PC-70	G	Midget Couplate	500K	500K	......	......	5000 μμf	......	250 μμf	......	......	......	......	.42
PC-71	G	Midget Couplate	250K	500K	......	......	5000 μμf	......	250 μμf	......	......	......	......	.42
PC-80	H	Standard Couplate	500K	500K	......	......	.01 μf	......	250 μμf	......	......	......	......	.45
PC-81	H	Standard Couplate	250K	500K	......	......	.01 μf	......	250 μμf	......	......	......	......	.45
PC-84	H	Standard Couplate‡	500K	500K	......	......	.01 μf	......	500 μμf	......	......	......	......	.45
PC-90	I	Pentode	4.7 meg	1 meg	2.2 meg	......	5000 μμf	50 μμf	......	2000 μμf	......	......	......	.54
PC-91	I	Pentode	4.7 meg	1 meg	2.2 meg	......	5000 μμf	100 μμf	......	5000 μμf	......	......	......	.54
PC-92	I	Pentode	4.7 meg	1 meg	2.2 meg	......	5000 μμf	100 μμf	......	2000 μμf	......	......	......	.60
PC-100	J	Vertical Integrator	22K	8.2K	8.2K	......	2000 μμf	5000 μμf	......	5000 μμf	......	......	......	.66
PC-101	K	Vertical Integrator	22K	8.2K	8.2K	22K	.01 μf	2000 μμf	......	5000 μμf	......	5000 μμf	......	.75
PC-106	L	Vertical Integrator	22K	10K	......	......	4700 μμf	4700 μμf	......	......	......	......	......	.60
PC-110	M	Filplate‡*	1000	820	......	......	.005 μf	.005 μf	......	......	......	......	......	.45
PC-111	M	Filplate‡*	220	1000	......	......	.005 μf	.005 μf	......	......	......	......	......	.45
PC-150	N	Audet‡ Output Stage	6.8 meg	470K	470K	......	2000 μμf	220 μμf	......	......	250 μμf	5000 μμf	......	.60
PC-151	N	Audet‡ Output Stage	6.8 meg	470K	470K	......	5000 μμf	220 μμf	......	......	250 μμf	5000 μμf	......	.69
PC-160	O	Pendet‡†	4.7 meg	1.0 meg	3.3 meg	10 meg	.002 μf	150 μμf	......	.01 μf	......	150 μμf	.005 μf	.75
PC-165	O	Pendet‡†	4.7 meg	1.0 meg	3.3 meg	10 meg	.002 μf	150 μμf	......	.01 μf	......	150 μμf	.005 μf	.81
PC-176	P	Special	82K	39K	......	......	.001 μf	.002 μf	......	......	......	......	......	.45
PC-177	Q	Special	150K	47K	1 meg	......	.01 μf	......	......	......	......	......	......	.60
PC-178	R	Special	15K	270K	......	......	150 μf	......	......	......	......	......	......	.45
PC-179	S	Special	150	220	......	......	.005 μf	.005 μf	......	......	......	......	......	.54
PC-260	T	Couplate‡**	10K	330K	2.2 meg	......	270 μμf	.01 μf	......	27 μμf	......	......	......	.75

*Filter Plate. †Pentode Detector Couplate‡. **Sync. Take-off. ‡Registered.

Centralab P. E. C.'s, Ceramic Capacitors

CERAMIC CAPACITORS

3000-6000 VOLT HI-VO DISC CAPACITORS



These new units are highly efficient for bypass-coupling in high frequency circuits under conditions of extreme humidity or temperature. Maintain high capacity and performance at 85° C. All units have a tolerance of ±20%. **DD30 Series, 3000 VDCW, 6000 VDC Test, Net Each 24c. DD60 Series, 6000 VDCW, 12,000 VDC Test, Net Each 30c.**

Capacity µµf	3000 Volt, D.C. Working		6000 Volt, D.C. Working	
	CRL No.	Size	CRL No.	Size
4.7	**DD30-4R7**	A	**DD60-4R7**	A
6.8	**DD30-6R8**	A	**DD60-6R8**	A
8.2	**DD30-8R2**	A	**DD60-8R2**	A
10	**DD30-100**	A	**DD60-100**	B
12	**DD30-120**	A	**DD60-120**	B
15	**DD30-150**	A	**DD60-150**	B
22	**DD30-220**	A	**DD60-220**	B
25	**DD30-250**	A	**DD60-250**	B
27	**DD30-270**	A	**DD60-270**	B
30			**DD60-300**	B
33	**DD30-330**	A	**DD60-330**	B
39	**DD30-390**	A	**DD60-390**	B
47	**DD30-470**	A	**DD60-470**	B
50	**DD30-500**	A	**DD60-500**	B
56	**DD30-560**	A	**DD60-560**	B
68	**DD30-680**	A	**DD60-680**	B
75	**DD30-750**	A	**DD60-750**	B
82	**DD30-820**	A	**DD60-820**	B
100	**DD30-101**	A	**DD60-101**	B
120	**DD30-121**	A	**DD60-121**	B
150	**DD30-151**	A	**DD60-151**	B
180	**DD30-181**	A	**DD60-181**	B
200	**DD30-201**	A	**DD60-201**	B
220	**DD30-221**	A	**DD60-221**	B
250	**DD30-251**	A	**DD60-251**	B
270	**DD30-271**	A	**DD60-271**	B
300	**DD30-301**	A	**DD60-301**	B
330	**DD30-331**	A	**DD60-331**	B
390	**DD30-391**	A	**DD60-391**	B
400	**DD30-301**	A	**DD60-401**	B
470	**DD30-471**	A	**DD60-471**	B
500	**DD30-501**	A	**DD60-501**	B
560	**DD30-561**	A	**DD60-561**	B
680	**DD30-681**	A	**DD60-681**	B
750	**DD30-751**	A	**DD60-751**	B
1000	**DD30-102**	A	**DD60-102**	B
1200	**DD30-122**	A	**DD60-122**	B
1500	**DD30-152**	A	**DD60-152**	B
2000	**DD30-202**	C		
2200	**DD30-222**	C		
2500	**DD30-252**	C		
2700	**DD30-272**	C		
3000	**DD30-302**	C		

Size A—3/16" x 5/8" dia.
Size B—5/16" x 3/4" dia.
Size C—3/16" x 7/8" dia.

1000 V.D.C.W. STANDARD DISC HI-KAPS

All units 1000 VDCW—100% tested at 2000 VDC. All units thru .005 µµf built to U/L test specifications for use in AC lines. Close tolerances, smallest available sizes. Double coating of Durez phenolic insulation to give maximum breakdown strength.

CRL No.	Cap. µµf	Tol. ±	Diam. In.	CRL No.	Cap., µµf	Tol. ±	Diam. In.
DD-3R3	3.3	.5 µµf	¼	**DD-151**	150	10%	¼
DD-050	5	.5 µµf	¼	**DD-181**	180	10%	¼
DD-6R8	6.8	.5 µµf	¼	**DD-201**	200	10%	¼
DD-100	10	10%	¼	**DD-221**	220	20%	¼
DD-150	15	10%	¼	**DD-251**	250	20%	¼
DD-200	20	10%	¼	**DD-271**	270	20%	¼
DD-250	25	10%	¼	**DD-301**	300	20%	¼
DD-330	33	10%	¼	**DD-331**	330	20%	¼
DD-390	39	10%	¼	**DD-391**	390	20%	¼
DD-470	47	10%	¼	**DD-471**	470	20%	¼
DD-500	50	10%	¼	**DD-501**	500	20%	¼
DD-560	56	10%	¼	**DD-561**	560	20%	¼
DD-680	68	10%	¼	**DD-681**	680	20%	¼
DD-750	75	10%	¼	**DD-751**	750	20%	¼
DD-101	100	10%	¼	**DD-801**	800	20%	¼
DD-121	120	10%	¼				
	Mfd.				**Mfd.**		
DD-102	.001	20%	3/8	**DD-502**	.005	GMV	5/8
DD-152	.0015	20%	3/8	**DD6-103**	.01*	GMV	9/16
DD-202	.002	20%	3/8	**DD-1032†**	.01	20%	3/4
DD-302	.003	20%	9/16	**DD-103**	.01	GMV	3/4
DD-472	.0047	20%	9/16	**DD-203**	.02*	GMV	9/16
DD-5022†	.005	20%	9/16				

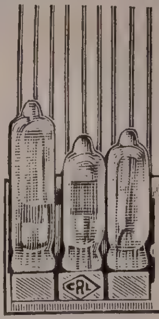
*600 VDCW.
†Net Each, **18c**. All others Net Each.................. **12c**

TYPE DD-3 PATENT SHIELDED DUAL DISC HI-KAPS

Three leads—two capacitors in the space formerly needed for one. 600 VDCW, tested 1200 VDCW.

CRL No.	Cap., Mfd.	Tolerance	Dia.	V.D.C.W.	Net Ea.
DD3-102	2 x .001	GMV	3/8"	600	**27c**
DD3-152	2 x .0015	GMV	3/8"	600	**27c**
DD3-202	2 x .002	GMV	9/16"	600	**27c**
DD3-502	2 x .005	GMV	9/16"	600	**30c**
DD3-103	2 x .01	GMV	5/8"	600	**30c**

AMPEC COMPLETE SPEECH AMPLIFIERS



MODEL II. A complete miniature three-stage amplifier. Includes complete electrical service from input to output. All wiring, capacitor, resistors and tube sockets are intimately bonded to a steatite ceramic "chassis", size 1¼" x 1⅛" x 5/16" thick over tube sockets. Capacitors 150 v. DCW, 300 v. DC flash test. Resistors 1/5 watt, meet JAN Grade L5 specifications for humidity. Operates on 22 v. "B" supply, 1.2 v. "A". At 1000 cps, gain 4500. Frequency response, 300-5000 cps. Uses 2-CK512AX and 1-CK548DX tubes.

CRL No. PC-201—Complete with three Raytheon tubes. Net Each.. **$15.00**
CRL No. PC-200—Less tubes. Net.. **$9.00**

MODEL III. An even smaller three-stage amplifier than the Model II above, and with additional circuits built in. Same specifications as above, but also has a tone control circuit with provision for a switch (not included) and is available in two models, either a grid bias or a zero bias output model. Size is only 1 3/32" x 15/16" x 11/32" thick over tube sockets. Recommended tone switch is G-C No. 1355 or Insuline No. 1257 (Canopy), SPST slide switches.

CRL No. PC-203—Zero Bias model. Complete with 2-CK549SX and 1-CK547DX tubes. Net Each......... **$19.20**
CRL No. PC-202—Same without tubes. Net Each..... **$10.50**
CRL No. PC-205—Grid Bias model. Complete with 2-CK549DX and 1-CK548DX tubes. Net Each....... **$20.10**
CRL No. PC-204—Same without tubes. Net Each..... **$10.50**

RAYTHEON TUBES FOR AMPEC

Type CK512AX—Net..	**$2.15**	**Type CK547DX**—Net..	**$2.55**
Type CK548DX—Net..	**2.55**	**Type CK549DX**—Net..	**2.05**

PRINTED ELECTRONIC CIRCUIT KITS

Plasti-Pak No. PCK-18—18 PEC Units, 9 of the most popular types, selected in ratio of usage. Replace 42 old style resistors, 52 old style capacitors. Includes 2 PC-50, 2 PC-70, 1 PC-71, 2 PC-80, 2 PC-81, 5 PC-100, 2 PC-150, 1 PC-177, 1 PC-178. In clear plastic reusable container, 8¼" x 4¼" x 1¼" deep. Hinged lid included at no extra cost.
Centralab No. PCK-18—Net Each..................... **$9.00**

Plasti-Pak No. PCK-45—45 PEC Units, 21 different PEC types, in ratio of popularity and use. The 45 widely used printed circuits actually consist of 106 ceramic base resistors, 133 ceramic capacitors. Includes 4 PC-50, 1 PC-51, 1 PC-52, 3 PC-70, 1 PC-71, 5 PC-80, 3 PC-81, 1 PC-90, 1 PC-91, 1 PC-92, 8 PC-100, 1 PC-101, 1 PC-110, 5 PC-150, 1 PC-151, 1 PC-160, 1 PC-176, 2 PC-177, 2 PC-178, 1 PC-179. In reusable hinged lid clear plastic container, 8¼" x 4¼" x 1¼" deep, included at no extra cost.
Centralab No. PCK-45—Net Each.................. **$24.00**

Metal Cabinet Shop-Pak No. PCK-110—110 PEC Units, 5 each of 22 widely used types. Includes the equivalent of 255 ceramic based resistors and 305 ceramic capacitors. Includes 5 each of Nos. PC-36, PC-50, PC-51, PC-52, PC-70, PC-71, PC-80, PC-81, PC-84, PC-90, PC-91, PC-92, PC-100, PC-101, PC-110, PC-150, PC-151, PC-160, PC-176, PC-177, PC-178, PC-179. All PEC's are packed in air-tight plastic envelopes. In blue 8" x 6" x 6⅜" four-drawer metal cabinet at no extra cost.
Centralab No. PCK-110—Net Each................. **$55.80**

Metal Cabinet Master Kit No. PCK-220—220 PEC Units, 23 different types, in the ratio of actual sales popularity. Equivalent to a stock of 525 resistors and 620 ceramic capacitors. Designed for the larger, progressive service establishment or "Pilot model" laboratory. Includes 5 PC-36, 15 PC-50, 5 PC-51, 5 PC-52, 15 PC-70, 5 PC-71, 15 PC-80, 15 PC-81, 5 PC-84, 5 PC-90, 5 PC-91, 5 PC-92, 50 PC-100, 5 PC-101, 5 PC-110, 5 PC-111, 15 PC-150, 5 PC-151, 5 PC-160, 5 PC-176, 10 PC-177, 10 PC-178, 5 PC-179. Packed in blue four-drawer metal cabinet 9½" x 11½" x 9¾" high, included at no extra cost.
Centralab No. PC-220—Net Each................. **$115.80**

TELEVISION H-PADS

(See illustration of PCH-10 at top of other Centralab Printed Electronic Circuit page.)

These P.E.C. units are especially designed for use in television antenna installations where signal strength needs attenuation to secure optimum performance. H-Pads have four terminals and are for installations in series with the standard 300 ohm antenna. Size, 1¼" x 1 3/16" x 3/16" thick. Solder terminals, 9/32" long. Net Each...................................... **48c**

CRL No.	Attenuation Rating	CRL No.	Attenuation Rating
PCH-10	10 db.	PCH-30	30 db.
PCH-20	20 db.	PCH-40	40 db.

PCH-100 Set of four H-Pads one each of above, in plastic box. Net Per Set.......................... **$1.80**

TYPE DD-2 DUAL DISCS

Efficient 2-for-1 construction and fully shielded to minimize the effects of stray capacities between the two adjacent capacitors on the disc. 600 VDCW, tested 1200 VDCW.

CRL No.	Cap., Mfd.	Tolerance	Dia.	V.D.C.W.	Net Ea.
DD2-102	2 x .001	GMV	3/8"	600	**24c**
DD2-152	2 x .0015	GMV	9/16"	600	**24c**
DD2-502	2 x .005	−20% +80%	5/8"	600	**27c**

El-Menco MIL-C-5A Mica Capacitors

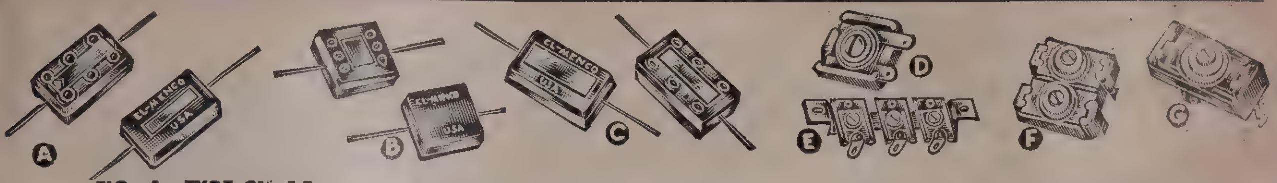


FIG. A—TYPE CM-15

9/32″ x 1/2″ x 5/16″

El-Menco Type	Cap. MMF.	D.C. W.V.	Net Each
CM-15-C-010-M	1	500	$0.30
CM-15-C-020-M	2	500	.30
CM-15-C-030-M	3	500	.30
CM-15-C-050-K	5	500	.24
CM-15-C-100-J	10	500	.24
CM-15-C-120-J	12	500	.24
CM-15-C-150-J	15	500	.24
CM-15-C-180-J	18	500	.24
CM-15-C-200-J	20	500	.24
CM-15-C-220-J	22	500	.24
CM-15-E-240-J	24	500	.24
CM-15-E-270-J	27	500	.24
CM-15-E-300-J	30	500	.24
CM-15-E-330-J	33	500	.24
CM-15-E-360-J	36	500	.24
CM-15-E-390-J	39	500	.24
CM-15-E-430-J	43	500	.24
CM-15-E-470-J	47	500	.24
CM-15-E-500-J	50	500	.24
CM-15-E-510-J	51	500	.24
CM-15-E-560-J	56	500	.24
CM-15-E-620-J	62	500	.24
CM-15-E-680-J	68	500	.24
CM-15-E-750-J	75	500	.24
CM-15-E-820-J	82	500	.27
CM-15-E-910-J	91	500	.27
CM-15-E-101-J	100	500	.27
CM-15-E-111-J	110	500	.27
CM-15-E-121-J	120	500	.27
CM-15-E-131-J	130	500	.27
CM-15-E-151-J	150	500	.27
CM-15-E-161-J	160	500	.30
CM-15-E-181-J	180	500	.30
CM-15-E-201-J	200	500	.30
CM-15-E-221-J	220	500	.33
CM-15-E-241-J	240	500	.33
CM-15-E-251-J	250	500	.33
CM-15-E-271-J	270	500	.36
CM-15-E-301-J	300	500	.36
CM-15-E-331-J	330	500	.39
CM-15-E-361-J	360	500	.42
CM-15-E-391-J	390	500	.42
CM-15-E-431-J	430	300	.45
CM-15-E-471-J	470	300	.48
CM-15-E-501-J	500	300	.48
CM-15-E-511-J	510	300	.48

FIG. A—TYPE CM-20

500 D.C. Working Volts

25/32″ x 7/16″ x 7/32″

El-Menco No.	Cap. MMF.	Net Each Regular	Net Each Silvered
CM-20-050	5	$0.18	$0.24
CM-20-100	10	.18	.24
CM-20-120	12	.18	.24
CM-20-150	15	.18	.24
CM-20-180	18	.18	.24
CM-20-200	20	.18	.24
CM-20-220	22	.18	.24
CM-20-240	24	.18	.24
CM-20-270	27	.18	.24
CM-20-300	30	.18	.24
CM-20-330	33	.12	.24
CM-20-360	36	.12	.24
CM-20-390	39	.12	.24
CM-20-430	43	.12	.24
CM-20-470	47	.12	.24
CM-20-500	50	.12	.24
CM-20-510	51	.12	.24
CM-20-560	56	.12	.24
CM-20-620	62	.12	.24
CM-20-680	68	.12	.24
CM-20-750	75	.12	.24
CM-20-820	82	.12	.24
CM-20-910	91	.12	.24
CM-20-101	100	.12	.24
CM-20-111	110	.12	.27
CM-20-121	120	.12	.27
CM-20-131	130	.15	.27
CM-20-151	150	.15	.27
CM-20-161	160	.15	.27
CM-20-181	180	.15	.27
CM-20-201	200	.15	.27
CM-20-221	220	.15	.27
CM-20-241	240	.18	.33
CM-20-251	250	.18	.33
CM-20-271	270	.18	.33
CM-20-301	300	.18	.33
CM-20-331	330	.18	.33
CM-20-361	360	.18	.33
CM-20-391	390	.18	.39
CM-20-431	430	.18	.39

TYPE CM-20—(CONT'D)

500 D.C. WORKING VOLTS

5/32″ x 7/16″ x 7/32″

El-Menco No.	Cap. MMF.	Net Each Regular	Net Each Silvered
CM-20-471	470	$0.18	$0.42
CM-20-501	500	.18	.42
CM-20-511	510	.18	.42
CM-20-561	560	.21	.45
CM-20-621	620	.21	.48
CM-20-681	680	.21	.51
CM-20-751	750	.21	.54
CM-20-821	820	.24	.57
CM-20-911	910	.27	.60
CM-20-102	1000	.27	.66
CM-20-112	1100	.30	.72
CM-20-122	1200	.30	.78
CM-20-132	1300	.30	.84
CM-20-152	1500	.36	.90
CM-20-162	1600	.36	.96
CM-20-182	1800	.42	1.02
CM-20-202	2000	.45	1.08

FIG. A—TYPE CM-25

500 D.C. WORKING VOLTS

7/16″ x 1 7/64″ x 7/32″

El-Menco No.	Cap. MMF.	Net Each Regular	Net Each Silvered
CM-25-471	470	$0.18	$0.42
CM-25-511	510	.18	.42
CM-25-561	560	.21	.45
CM-25-621	620	.21	.48
CM-25-681	680	.21	.51
CM-25-751	750	.21	.54
CM-25-821	820	.24	.57
CM-25-911	910	.27	.60
CM-25-102	1000	.27	.66
CM-25-112	1100	.30	.72
CM-25-122	1200	.30	.78
CM-25-132	1300	.30	.84
CM-25-152	1500	.36	.90
CM-25-162	1600	.36	.96
CM-25-182	1800	.42	1.02
CM-25-202	2000	.45	1.08

FIG. B—TYPE CM-30

500 D.C. WORKING VOLTS

13/16″ x 13/16″ x 9/32″

El-Menco No.	Cap. MMF.	Net Each Regular	Net Each Silvered
CM-30-511	510	$0.18	$0.42
CM-30-561	560	.18	.45
CM-30-621	620	.18	.48
CM-30-681	680	.18	.51
CM-30-751	750	.18	.54
CM-30-821	820	.18	.57
CM-30-911	910	.18	.60
CM-30-102	1000	.21	.66
CM-30-112	1100	.21	.66
CM-30-122	1200	.21	.75
CM-30-132	1300	.21	.75
CM-30-152	1500	.24	.81
CM-30-162	1600	.24	.81
CM-30-182	1800	.27	.81
CM-30-202	2000	.27	.90
CM-30-222	2200	.27	.90
CM-30-242	2400	.30	1.08
CM-30-252	2500	.30	1.08
CM-30-272	2700	.30	1.14
CM-30-302	3000	.36	1.23
CM-30-332	3300	.36	1.23
CM-30-362	3600	.36	1.26
CM-30-392	3900	.39	1.29
CM-30-432	4300	.39	1.29
CM-30-472	4700	.39	1.29
CM-30-502	5000	.42	1.35
CM-30-512	5100	.42	1.35
CM-30-562	5600	.42	1.50
CM-30-622*	6200	.54	1.74

FIG. B—TYPE CM-35

300 D.C. WORKING VOLTS

13/16″ x 13/16″ x 11/32″

El-Menco No.	Cap. MMF.	Net Each Regular	Net Each Silvered
CM-35-682	6800	$0.57	$1.80
CM-35-752	7500	.60	1.95
CM-35-822	8200	.69	2.10
CM-35-912	9100	.69	2.40
CM-35-103	10000	.84	2.40
CM-35-123	12000	.96	2.70
CM-35-153	15000	1.20	3.15
CM-35-682*	6800	.63	1.98
CM-35-752*	7500	.69	2.19
CM-35-822*	8200	.78	2.31
CM-35-912*	9100	.78	2.64
CM-35-103*	10000	.93	2.64

*500 volts D.C. working.

FIG. C—TYPE CM-40

500 D.C. WORKING VOLTS

1″ x 5/8″ x 11/32″

El-Menco No.	Cap. MMF.	Net Each Regular	Net Each Silvered
CM-40-272	2700	$0.33	$1.14
CM-40-302	3000	.36	1.23
CM-40-332	3300	.36	1.23
CM-40-362	3600	.39	1.26
CM-40-392	3900	.42	1.29
CM-40-432	4300	.42	1.29
CM-40-472	4700	.42	1.29
CM-40-502	5000	.45	1.35
CM-40-512	5100	.45	1.35
CM-40-562	5600	.45	1.50
CM-40-622	6200	.63	1.74
CM-40-682	6800	.69	1.98
CM-40-752	7500	.84	2.19
CM-40-822	8200	.84	2.31
CM-40-912*	9100	.78	2.40
CM-40-103*	10000	.90	2.40
CM-40-912	9100	.84	2.64
CM-40-103	1000	1.02	2.64

*300 working volts, D.C.

FIG. D—TYPE 30 PADDER

Mica films completely enclosed, India ruby mica used. Phosphor bronze adjusting plates. Heavily plated. 7/8″ x 15/16″.

El.No.	Plates	Guaranteed Range	Net
310	10	1890–650 mmf.	$0.75
309	9	1600–550 mmf.	.69
308	8	1390–450 mmf.	.63
307	7	1180–350 mmf.	.60
306	6	970–275 mmf.	.54
305	5	760–190 mmf.	.51
304	4	550–100 mmf.	.45
303	3	340–65 mmf.	.39
302	2	130–15 mmf.	.36

FIG. E—TYPE 46 TRIMMER

Low-loss ceramic base; clear India ruby mica; soldering lugs bend to any position. 3/4″ x 5/8″.

El.No.	Plates	Guaranteed Range	Net
469	9	780–170 mmf.	$0.48
468	8	680–140 mmf.	.45
467	7	580–110 mmf.	.42
466	6	480–80 mmf.	.36
465	5	380–50 mmf.	.33
464	4	280–25 mmf.	.30
463	3	180–9 mmf.	.27
462	2	80–5 mmf.	.24
461	1¾	30–2.7 mmf.	.21
460	1¼	15–1.5 mmf.	.21

FIG. F—TYPE 50 DUAL PADDER

Provide 2 variable trimmers mounted on a single base. Will fit any size shield exceeding 1 1/16″ x 1 1/16″.

El.No.	Plates	Guaranteed Range	Net
504	4	240–50 mmf.	$0.48
503	3	160–19 mmf.	.42
502	2	80–7.5 mmf.	.36

FIG. G—TYPE 58 PADDER

Single section, provided with 2-pronged staple mounting. Base is steatite and mica is India ruby.

El.No.	Plates	Guaranteed Range	Net
584	4	240–50 mmf.	$0.30
583	3	160–19 mmf.	.27
582	2	80–7.5 mmf.	.24

KITS

Type CM-15 Capacitor Kit—Contains 5 each of all CM-15 capacitors listed on this page, packed in individual boxes. Weight, 1¼ lbs.
Net Each.......................... $54.00

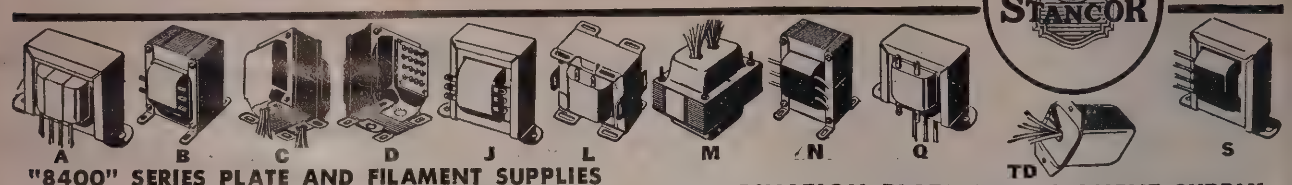
Type 30 Padder Kit—Contains 12 units of each value listed above.
Net Each.......................... $75.00

Type 46 Trimmer Kit—Contains 24 each of Type 46 trimmers listed above. Weight, 10 lbs.
Net Each.......................... $54.00

TOLERANCES

Standard tolerances on listed units: regular mica, 20%, silvered, 5%. Other tolerances available. Regular micas supplied in "A" and "B" characteristic at no extra charge. Silver micas supplied in "C", "D" and "E" characteristic at no extra charge. **For any RETMA size not shown, figure price to nearest capacity.**

TRANSFORMERS by STANCOR



"8400" SERIES PLATE AND FILAMENT SUPPLIES

TYPE PC, "C" Mtg.; PM "M" Mtg.; PS, "S" Mtg.; PA, "A" Mtg.

Provide approximately 260 v. d. c. to condenser input filter.

Stancor No.	Plate V	Plate DC ma	Rec. Fil. V	Rec. Fil. A	Amp. Fil. V	Amp. Fil. A	Mtg. Area Inches	Wt. Lbs.	Net Each
PC8401	470	40	5	2	6.3 CT	2.0	2⅝x2⅝	2.2	**$4.05**
PM8401	470	40	5	2	6.3 CT	2.0	2½x3	2.2	**4.05**
PC8402	480	55	5	2	6.3 CT	2.0	2⅝x2¾	2.4	**4.50**
PM8402	480	55	5	2	6.3 CT	2.0	2½x3	2.4	**4.50**
PC8403	500	70	5	2	6.3 CT	2.5	2⅝x3⅛	3.2	**5.04**
PM8403	500	70	5	2	6.3 CT	2.5	2½x3	3.2	**5.04**
PC8404	520	90	5	2	6.3 CT	3.0	3x3½	4.0	**5.67**
PM8404	520	90	5	2	6.3 CT	3.0	2⅞x3⅜	4.0	**5.67**
PC8405	540	120	5	3	6.3 CT	3.5	3¼x3½	4.9	**6.27**
PM8405	540	120	5	3	6.3 CT	3.5	3⅛x3¾	4.9	**6.27**
Use with choke input, VR supply, Spkr. field or Hi-V. C. input.									
PC8406	650	40	5	2	6.3 CT	2.0	2⅝x2¾	2.4	**4.14**
PM8406	650	40	5	2	6.3 CT	2.0	2½x3	2.4	**4.14**
PC8407	650	55	5	2	6.3 CT	2.0	2⅝x3⅛	3.2	**4.56**
PM8407	650	55	5	2	6.3 CT	2.0	2½x3	3.2	**4.56**
PC8422	700	150	5	3	6.3 CT	5.0	3¼x3⅞	5.8	**8.07**
PM8422	700	150	5	3	6.3 CT	5.0	3⅛x3¾	5.8	**8.07**
PC8408	680	70	5	2	6.3 CT	2.5	3x3⅜	3.8	**5.16**
PM8408	680	70	5	2	6.3 CT	2.5	2⅞x3⅜	3.8	**5.16**
PC8409	700	90	5	2	6.3 CT	3.0	3x3⅝	4.5	**5.76**
PM8409	700	90	5	2	6.3 CT	3.0	2⅞x3⅜	4.5	**5.76**
PC8410	720	120	5	3	6.3 CT	3.5	3¼x3¾	5.5	**6.36**
PM8410	720	120	5	3	6.3 CT	3.5	3⅛x3¾	5.5	**6.36**
PC8411	750	150	5	3	6.3 CT	4.5	3⅝x4	5.8	**7.62**
PM8411	750	150	5	3	6.3 CT	4.5	3½x4⅛	5.8	**7.62**
PC8412	800	200	5	3	6.3 CT	5.0	4x4	8.2	**8.58**
PM8412	800	200	5	3	6.3 CT	5.0	3¾x4½	8.2	**8.58**
PC8413	800	250	5	4	6.3 CT	5.0	4x4½	10.	**10.77**
PC8414	12K	200	5	3	6.3x2	3x2	4x4	8.3	**10.83**
For use with 6AX5, 6X4, 6X5, or selenium rectifiers.									
PS8415	125	15	½ wave		6.3	0.6	2⅜x1⅜	0.7	**1.89**
PS8416	250	25	....		6.3	1.0	2⅞x1¾	1.0	**2.37**
PC8417	440	50	6.3	.6	25.2	0.5	2⅝x2⅝	2.2	**4.44**
PC8418	460	50	....		6.3	2.5	2⅝x2⅝	2.2	**3.93**
PM8418	460	50	....		6.3	2.5	2½x3	2.2	**3.93**
PC8419	480	70	....		6.3	3.0	2⅝x2⅞	2.6	**4.50**
PM8419	480	70	....		6.3	3.0	2½x3	2.6	**4.50**
PC8420	520	90	....		6.3	4.0	3x3½	3.5	**5.01**
PM8420	520	90	....		6.3	4.0	2⅞x3⅜	3.5	**5.01**
PA8421	125	50	½ wave		6.3	2.0	3¾x2⅛	1.5	**3.15**

OUTPUT TRANSFORMERS Single Plate to Voice Coil

Stancor No.	Impedance in Ohms Pri.	Impedance in Ohms Sec.	Max. Watts	Mtg.	Net Each
A-3865	1,500	6, 4, 2	5	A	**$1.98**
A-3330*	2,000	3.5	5	A	**1.65**
A-3332	2,000	3.2	3	A	**.96**
A-3876	2,000	4	5	A	**1.14**
A-3328	4,000	3.5	3	A	**1.23**
A-3877	5,000	4	5	A	**1.20**
A-3310	5,000	500, 15, 8, 4	20	C	**4.83**
A-3878	7,000	4	5	A	**1.17**
A-2313	7,000	8	10	A	**2.04**
A-3329	8,000	3.5	3	A	**1.14**
A-3879	10,000	4	5	A	**1.14**
A-3881	15,000	4	5	A	**1.29**
A-3327	25,000	4	5	A	**1.47**
A-3336*	25,000	3.5	5	A	**1.59**
PUSH-PULL PLATES TO VOICE COIL*					
A-3802	3800/3300	500, 250, 8, 4	75	C	**$9.06**
A-3851•	4,400	500, 250, 15, 8, 4	30	C	**6.48**
A-3872	5,000	15, 8, 4	18	TD	**4.20**
A-3800	5,000	500, 250, 15, 8, 4	30	C	**5.55**
A-3801	6,600	500, 250, 15, 8, 4	35	C	**6.66**
A-3304	10,000/7,000	500, 15, 8, 4	25	C	**5.79**
A-3311	10,000	500, 15, 8, 4	25	C	**5.46**
A-3831	10,000	8, 4, 2	5	A	**2.16**
A-3303	14,000	500, 15, 8, 4	20	MM	**5.88**
A-3335	10,000	6-8/3.2-4	10	S	**2.64**
A-2312	14,000	4	10	A	**2.10**
A-3496	14,000	4	5	A	**1.92**
A-3857	25,000	4	5	A	**1.53**

*Hum Reducing. • Has tertiary winding to provide 10% inverse feedback.

70.7 VOLT LINE TO VOICE COIL—MTG. J

Stancor No.	Power Steps in Watts	Impedance, Ohms Primary x Secondary	Net Each
A-8102	8/4/2/1/0.5	625/1250/2.5M/5M/ 10M x 4/8/16*	**$2.70**
A-8103	16/8/4/2/1/0.5	312.5/625/1250/2.5M/ 5M/10M*	**3.78**

*Secondary Impedance, 4/8/16 ohms.

TUBE TO LINE

Stancor No.	Application	Impedance/Ohms	Mtg.	Net Each
A-3842	PP Pl to line	Pri-14M,12M,10M,8MCT Sec-500	J	**$4.68**
A-3250	Sgl Pl or PP Pl to line	Pri-20M,10M,5M,20MCT Sec-500, 333, 200, 125, 50	Q	**2.97**

COMBINATION PLATE AND FILAMENT SUPPLY

Stancor No.	Plate V	Plate DC ma	Rec. Fil. V	Rec. Fil. A	Amp. Fil. V	Amp. Fil. A	Mtg. Area Inches	Mtg	Net Each
P-6001	650	40	5.0CT	2.0	2.5CT	4.0	2½x3	M	**$5.40**
P-6003	700	70	5.0CT	2.0	2.5CT	9.0	2⅞x3⅜	M	**7.68**
P-6005	700	70	5.0CT	3.0	2.5CT 2.5CT	9.0 3.5	2⅞x3⅜	M	**5.70**
P-6004	700	90	5.0CT	3.0	2.5CT	12.5	3⅛x3¾	M	**6.93**
P-6007	800	110	5.0CT	3.0	2.5CT 2.5CT	15.0 3.5	3⅛x3¾	M	**8.88**
P-6006	700	120	5.0CT	3.0	2.5CT 2.5CT	12.5 3.5	3⅛x3⅝	M	**9.51**
P-3005	720 80v	125 Bias	5.0CT 5.0CT	3.0 2.0	2.5CT 6.3CT	10.0 4.0	4x3⅞	C	**12.90**
P-4004	800 80v	175 Bias	5.0CT	3.0	2.5 6.3CT 6.3CT	1.75 2.5 2.5	4x3⅞	C	**11.37**
P-6315	740	275	5.0CT	3.0	6.3CT	7.0	3¾x4½	M	**11.70**

VIBRATOR TRANSFORMERS

Stancor No.	Sec. AC Volts	Sec. DC Volts	Filter Ma	Dimensions HxWxD In.	Mtg.	Net Each
P-6301	420	150	40	2$\frac{5}{16}$x2⅞x1¾	S	**$3.12**
P-4060	480	225	40	3⅛x2½x2⅝	N	**4.05**
P-4061	580	250	50	3⅛x2½x2⅝	N	**3.90**
P-4062	600	260	65	3⅛x2½x2⅝	N	**4.29**
P-4063	640	285	75	3⅛x2½x2¾	N	**5.46**
P-6131	740	330	100	3½x2⅞x2⅞	N	**6.03**

UNIVERSAL OUTPUT

Stancor No.	Application	Mtg.	Net Each
A-3856	Sgl or PP Pl (4M to 14M) to VC	Q	**$1.95**
A-3822	Sgl Pl (7M to 10M) to VC	Q	**1.65**
A-3848	Sgl Pl (7M to 16M) to VC	Q	**2.34**
A-3823	Sgl or PP Pl (4M to 14M) to VC	Q	**2.10**
A-3850	Sgl or PP Pl (4M to 14M) to VC	J	**2.37**
A-3825	Sgl Pl (1500 to 4500) to VC	Q	**2.37**
A-3824	Sgl or PP Pl (6M to 10M) to VC	Q	**2.97**
A-3849	Sgl Pl (1500 to 10M) to VC	Q	**2.01**
A-3880	PP Pl (4M to 14M) to VC	Q	**3.57**
A-2855	PP Pl (4M to 14M) to VC	L	**3.18**
A-3890	PP Pl (4M to 14M) to VC	TD	**4.89**
A-3852	PP Pl (4M to 14M) to VC	J	**2.61**
A-3870	PP Pl (4M to 14M) to VC	Q	**2.97**
A-3830	PP Pl (3M to 10M) to VC	J	**3.24**

LINE TO VOICE COIL

Stancor No.	Output	Impedance, Ohms	Mtg.	Net Each
A-8101	5 watts	Pri-500; Sec-3.2, 6-8	Q	**$1.41**
A-3820	40 watts	Pri-2M, 1500, 1M, 500 Sec-15, 8, 4	D	**9.66**
A-3818	25 watts	Pri-1500, 1M, 500 Sec-15, 8, 4	J	**3.27**
A-3882	25 watts	Pri-500, 333, 250 Sec-15, 8, 4	D	**5.58**
A-3883	25 watts	Pri-500; Sec-15, 8, 6, 4	J	**2.82**
A-3837*	15 watts	Pri-500 Sec-8, 4, 2.65, 2.35, 2, 1.5, .7 .5, .3, .2, .1, .05	J	**3.30**
A-7947	8 watts	Pri-2M, 1500, 1M, 500 Sec-6	Q	**1.92**
A-7949	12 watts	Pri-2M 1500, 1M, 500 Sec-6-8	J	**2.55**
A-8104	10 watts	Pri. 3M, 2M, 1.5M, 1M, 500; Sec. 16, 8, 4	J	**3.66**
A-3838‡	30 watts	Pri-500, 250, 175, 150, 140, 125, 100, 85, 45, 14, 4, .7	B	**4.41**

*Designed to operate one or more speakers in parallel across a 500 ohm line. ‡Designed to operate one or more speakers in series across a 500 ohm line, or to match unequal lines.

CRYSTAL RECORDER OUTPUT Type A Mounting

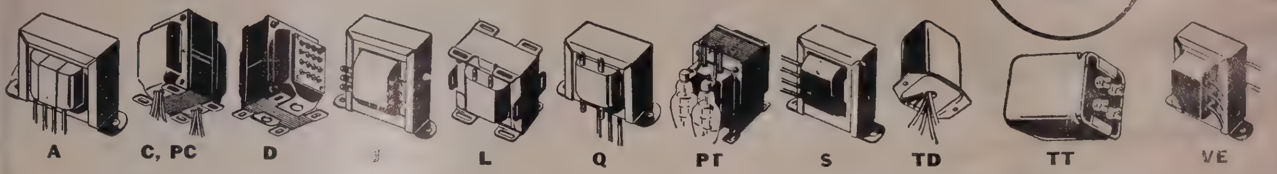
Stancor No.	Application*	Net Each
A-3853	7M ohm Pl. to 70M cutter or 4 ohm VC	**$3.57**
A-3854	7M ohm Pl. to 70M cutter 4 ohm VC	**3.96**
A-3859	PP .0M ohm Pl. to 70M ohm cutter or 4 ohm VC	**3.84**
A-3860	PP 10M ohm Pl. to 70M ohm cutter 4 ohm VC	**4.32**

*Models A-3853 and A-3859, 5 watts. Others, 10 watts.

AUTO RADIO VIBRATOR TRANSFORMERS

Stan. No.	Replaces	Net Each	Stan. No.	Replaces	Net Each
P-4064	Delco 7240519	**$7.05**	**P-6472**	Col.-Detr. D71014, Col.-Bend. C217020 Col.-Mot. C71014 Mot. 25B70950	**$4.56**
P-4065	Delco 7255881	**6.54**			
P-6470	Regal 140-111	**4.59**			
P-6471	Mot. 25B472533	**4.56**			
P-6473	Zenith 95-1066	**5.19**	**P-6476**	Col.-Det. D70267 Col.-Mot.-Det. C70267	**4.68**
P-6474	Zenith 95-1066	**4.74**			

TRANSFORMERS by STANCOR



INPUT TRANSFORMERS

Microphone or Line to Line

Stancor No.	Impedance	H x W x D In.	Mtg.	Net Each
A-4350†*	Pri-500/333/200/125/50	2x3¼x1¾	Q	$3.90
A-4407*	Sec-500/333/200/125/50	3[illegible]x2⅞x3¼	D	7.86

†Has dual primary. When properly connected, the 500 and 200 ohm sections are center-tapped. *Static shield between Pri. and Sec.

Microphone, Pickup or Line to Grid

Stancor No.	Impedance	H x W x D In.	Mtg.	Net Each
A-4705	Pri-200/70 ohms Sec-80M	1⅜x2⅜x1⅜	A	$1.92
A-4706	Pri-100 Sec-60M	1⅜x2⅜x1½	A	1.95
A-4708	Pri-200CT Sec-57M	2x2⅜x1⅝	J	2.64
A-4351*	Pri-500/333/200/125/50 Sec-89,000	2¹¹⁄₁₆x2¾x2³⁄₁₆	TD	4.17
A-4352*	Pri-500/333/200/125/50 Sec-89,000	2x3¼x1¾	Q	3.63
A-4709	Pri-30/15/8/4 Sec-106,000	2¹¹⁄₁₆x2¾x2³⁄₁₆	TD	4.68
A-4742	Pri. 100; Sec. 400,000 CT	2⁵⁄₁₆x2⅞x1¾	S	2.82
A-4743	Pri. 100; Sec. 400,000 CT	2⁵⁄₁₆x2⅞x2⅛	VE	3.87

*Has dual primary. When properly connected, the 500 and 200 ohm sections are center-tapped.

INTERCOMMUNICATOR AND TRANSCEIVER

A-4744	Pri-4 Sec-25,000	1⅜x2⅜x1½	VE	$1.68
A-4747	Pri-70 ohms; Sec-1.3 meg.	1⁷⁄₁₆x1⁵⁄₁₆x1¼	VE	2.16
A-4748	Pri-45 or 50 ohms; Sec-50M	2⅝x2³⁄₁₆x2¼	A	1.86
A-3833	Pri-200 and 5,000 Sec-60,000	1⅝x2⅞x1⅓	A	2.58

PLATE TRANSFORMERS

DC output rated at load terminals of single-section, reactor-input filter, ICAS with single-section capacitor-input filter. Primary, 117 volts, AC. **Mounting PC.**

Stancor No.	Secondary AC Volts	DC Output		Filter Input	Rectifier	Net Each
		Volts	Ma.			
PC-8301	415–0–415	300 425	200 160	Reactor Capacitor#	5U4G 5U4G	$7.23
PC-8302	515–0–515	385 500	235 200	Reactor Capacitor#	5U4G 5R4GY	9.27
PC-8303	665–0–665	500 750	250 200	Reactor Capacitor#	5R4GY 5R4GY	11.73
PC-8304	750–0–750	600 850	265 200	Reactor Capacitor#	2-5R4GY 5R4GY	13.14
PC-8305	920–0–920	750 1000	250 200	Reactor Capacitor#	2-5R4GY 5R4GY	13.71
PC-8306	920–0–920	750 1100	150 125	Reactor Capacitor	5R4GY 5R4GY	13.92
	500–0–500	380 550	150 125	Reactor Capacitor#	5U4G 5U4G	

#Capacitor input rating is for intermittent duty.

DC output rated at load terminals of single-section, reactor-input filter with full-wave mercury-vapor rectification. 117 volts, AC.

Stancor No.	Secondary AC Volts	DC Volts	DC Ma.		Mtg.	Shpg. Wt.	Net Each
			CCS	ICAS			
PT-8311	1200–0–1200	1000	225	280	PT	13.0	$15.12
PT-8312	1200–0–1200	1000	325	405	PT	22.2	25.02
PT-8313	1475–0–1475	1250	250	310	PT	22.3	23.97
PT-8314	1790–0–1790	1500	225	280	PT	24.0	27.66
PT-8315	2065–0–2065	1750	200	250	PT	24.5	27.90

PLATE SUPPLY TRANSFORMERS

Designed primarily to deliver the rated DC voltage and current outputs when used with full-wave mercury-vapor rectifier tubes in conjunction with a two section filter employing choke input and two 2 mfd condensers working into a resistive load.

Stan. No.	DC Volts	DC Ma	Wt. Lbs.	H x W x D Inches	Mtg.	Net Each
P-8027	1250, 1000	500	45.2	7¾x7⅜x9	FS	$51.45
P-8029	1500–1250	500	65	11¼x7⅜x8¾	FS	70.77
P-8031	1750–1500	500	65.5	11¼x7⅜x8¾	FS	70.17
P-8032	2000–1750	300	46.0	7¾x7⅜x9¼	FS	59.70
P-8033	2000–1750	500	77.0	11¼x7⅜x9½	FS	87.90
P-8034	2500–2000	300	62.8	11¼x7⅜x8¾	FS	85.50
P-8035	2500–2000	500	80.0	11¼x7⅜x9¾	FS	93.30
P-9920	2500–2000	350 500	122.0	9⅛x11⅛x13⅞	Y	146.10

INTERSTAGE TRANSFORMERS

PUSH-PULL INPUT. Single Plate (7,000 to 20,000 ohms) to push-pull class "A" grid. All pri. are rated at 10 Ma DC except A-4208 at 15 Ma. A-53 Sing. Plate to Sing. Grid.

Stancor No.	Ratio	H x W x D In.	Mtg.	Net Each
A-52-C	1:2	1⅜x2⅜x1⅜	A	$1.65
A-62-C	1:2	1⅝x2⅞x1½	A	1.86
A-53	1:3	1⅜x2⅜x1½	A	1.59
A-53-C	1:3	1⅜x2⅜x1⅜	A	1.62
A-63-C	1:3	1⅝x2⅞x1½	A	1.83
A-64-C	1:4	2x2⅜x1¾	A	2.19
A-73-C	1:3	2x3¼x1¾	A	2.28
A-4719	1:3	2¹¹⁄₁₆x2¾x2³⁄₁₆	TD	4.47
A-4206†	1:3.25	3⅛x2⅝x2⅝	C	5.91
A-4745	1:2	2¹¹⁄₁₆x2¾x2³⁄₁₆	TD	5.10

PUSH-PULL INTERSTAGE. Push-pull plates (7,000 to 20,000 ohms) to parallel or push-pull class "A" grids.

Stancor No.	Ratio	H x W x D In.	Mtg.	Net Each
A-4208	1:14	3³⁄₁₆x2⅝x2⅝	C	$5.01
A-4777	1:1.5	3³⁄₁₆x2⅝x2⅝	C	5.70
A-4774*†	1:3	2⁵⁄₁₆x2⅞x1¾	S	2.76
A-4773*†	1:3	2¹¹⁄₁₆x2¾x2³⁄₁₆	TD	4.68

*Primary is center-tapped and secondary has split winding, thus permitting ratios of 1:1, 3:1 and 6:1. May be used in either step-up or step-down applications. †Has a pie-wound split secondary.

HIGH FIDELITY OUTPUT TRANSFORMERS

Max. power level, 50 watts. Frequency response excellent from 20 to 20,000 cps. Extremely low level of intermodulation distortion over entire range and at any power level. Type "C" upright shell mounting for all units. Shpg. Weight, 6.5 lbs. Size: 4⁵⁄₁₆" H x 2¾" W x 3¹⁄₁₆" D.

Stancor No.	Pri. Z (PP) Ohms	Sec. Z Ohms*	Max. Watts	Max. Pri. DC/Half	Net Each
A-8050	1500	8, 16	50	200	$12.27
A-8051	2500	8, 16	50	150	12.27
A-8052	3000	8, 16	50	175	12.27
A-8053	5000	8, 16	50	150	12.27
A-8056	6600	8, 16	50	125	12.27
A-8054	9000	8, 16	50	100	12.27
A-8060	1500	500	50	200	12.27
A-8061	2500	500	50	150	12.27
A-8062	3000	500	50	175	12.27
A-8063	5000	500	50	150	12.27
A-8066	6600	500	50	125	12.27
A-8064	9000	500	50	100	12.27

*Where more than one secondary impedance is shown, only one value is to be used at any time.

NEW TINYTRANS—MTG. TT

These miniature high fidelity audio transformers have a response of 1 db, 30-15,000 cps. Max. level, 0 db. Nickel steel laminations and stud-type terminals. Cased and potted in ⅞" square, anodized aluminum cans with phenolic terminal boards. Total height, 1¼". Case has two threaded (2-56) inserts for easy mounting. Entire unit weighs only 1.3 ounces.

Stan. No.	Application	Pri. Z*	Net Each
TT-11	Mic., Pickup or Line to 1-Grid	50, 200/250, 500/600	$8.49
TT-12	Mic., Pickup or Line to PP Grids	Same as TT-11	8.85
TT-13	Dyn. Mic. to Single Grid	7.5/30	8.07
TT-14	Single Plate to Single Grid	15,000†	6.96

*Secondary Z, 50,000 ohms except for TT-14, 60,000 ohms.
†No DC in Primary.

STANCOR TRANSFORMERS IN THE WILLIAMSON HIGH FIDELITY CIRCUIT

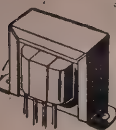
The full potentialities of the famous Williamson Amplifier are realized with the Stancor Model **A-8054** high fidelity output transformer, the **PC-8412** power transformer and the **C-1411** filter choke. Using these components you can build this circuit at a new low cost.
The frequency curve remains flat at 20 to 50,000 cycles from 0.5 watts to an 8 watt level. Intermodulation distortion of this circuit measures only 3% at 8 watts output. Total harmonic distortion, at 1000 cycles, is extremely low and can be considered non-existent below the 10 watt power level.

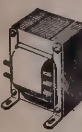
STANCOR COMPONENTS

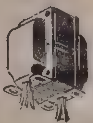
Stancor No.	Component	Net Each
A-8054	High Fidelity Output Transformer.....	$12.27
PC-8412	Power Transformer..................	8.58
C-1411	Filter Choke.......................	4.29

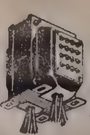
A set of two completely punched and finished chassis for this amplifier is available.
Stancor Model WM-8—Completely punched chassis. Net Each.................................... $5.75
Construction details, including schematic diagrams, parts lists and under-chassis photographs for wiring lay-outs, are given in Stancor Bulletin 382. Write for free copy.

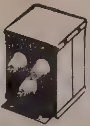
TRANSFORMERS by STANCOR

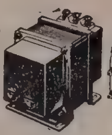


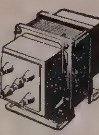


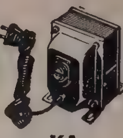


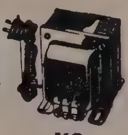


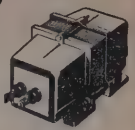












DRIVER TRANSFORMERS

Single Drivers. Single plate to push-pull grids.

Stancor No.	Pri. Imp. Ohms	Pri/½ Sec. Ratio	Pri. Ma. DC	Mtg.	Net Each
A-4713	10,000	2:1	30	A	$1.80
A-4752	10,000	2/1.5/1:1	40	A	2.64
A-4292	10,000	2.5:1	20	A	1.89
A-4723	10,000	3:1	30	A	1.80
A-4210	1500–5M	3:1	40	C	4.47
A-4702	1500–5M	5:1	80	C	4.41

Push-Pull Drivers. P.P. Plates to P.P. Grids

Stancor No.	Pri. Imp. Ohms	Pri/½ Sec. Ratio	Pri. Ma. DC	Mtg.	Net Each
A-4208*	20M–30M	2.8:1	15	C	$5.01
A-4701*	20M	3:1	25	C	5.76
A-4212	1500–5M	3.2:1	50	C	4.68
A-4416	3M-10M	5:1	40	C	5.22
A-4703*	3M-10M	5:1	95	C	5.70

*These units have split secondaries for individual bias adjustment and/or use of inverse feedback.

POLY-PEDANCE DRIVER TRANSFORMERS

Tapped to give usable ratios in Class "B" driver. Cap., 15 watts. Primary per side, 60 Ma. Type CD mtg. Wt., 3 lbs.

Stancor No.	Ratio Pri. to ½ Sec.	HxWxD In.	Net Each
A-4761	1.25:1, 1.4:1, 1.6:1, 1.8:1, 2:1, 2.2:1, 2.4:1	3 3/16x2 5/8x3 5/8	$9.99
A-4762	2.6:1, 3:1, 3.2:1, 3.4:1, 4:1, 4.5:1, 5:1	3 3/16x2 5/8x3 1/8	9.42
A-4763	1.25:1, 1.5:1, 1.75:1, 2:1, 2.25:1, 3.2:1	3 5/8x3x4	11.67
A-4765*	1:0.75, 1:0.85, 1:1, 1:1.25, 1:1.45, 1:1.75, 1:2, 1:2.25, 1:2.5, 1:2.75, 1:3.15	3 3/16x2 5/8x3 5/8	10.35

*Line Driver. Multi-tapped with pie-wound coils.

FILAMENT TRANSFORMERS

All Primaries are 115 volts, 60 cycles.

Stancor No.	Secondary V	Secondary Amps.	Wt. Lbs.	Dimensions H x W x D In.	Mtg.	Net Each
P-6133	2.5CT	5	1.5	2 11/16x3 5/16x2 1/4	S	$3.42
P-4083	2.5CT	6	2.2	3 3/16x2 5/8x2 3/8	C	4.56
P-3024	2.5CT	10	2.5	3 3/16x2 5/8x2 5/8	C	4.50
P-3060	2.5CT	10	2.5	3 1/2x2 7/8x2 1/2	B	4.29
P-3026	5CT	3	2.4	3 3/16x2 5/8x2 5/8	C	4.50
P-4088	5CT	3	1.8	3 1/8x2 1/2x2 1/2	B	3.57
P-6467	5CT	3	1.4	2x3 5/16x2	A	2.88
P-3062	5CT	6	2.3	3 1/8x2 1/2x2 1/2	B	3.81
P-6468	5CT	30	4.3	4 5/16x4 5/8x8 1/2	D	9.75
P-6135	5CT	10	3	3 1/8x2 1/2x2 7/8	N	4.47
P-6134	6.3CT	1.2	0.8	1 5/8x2 7/8x1 5/8	A	1.74
P-5014	6.3CT	3	2	3 1/8x2 1/2x2 1/2	B	3.27
P-6466	6.3CT	3	1.4	2x3 5/16x2	A	2.79
P-4019	6.3CT	4	2.7	3 3/16x2 5/8x2 5/8	C	4.32
P-3064	6.3CT	6	2.4	3 1/8x2 1/2x2 7/8	B	3.75
P-4089	6.3CT	6	3.5	3 5/8x3x3 1/8	C	4.95
P-6308	6.3CT	10	3.4	3 1/2x2 7/8x2 3/4	N	4.50
P-5015	7.5CT	4	2.7	3 1/8x2 1/2x2 7/8	B	3.81
P-6138	7.5CT	8	4.7	3 7/8x3 1/8x2 7/8	N	5.52
P-6139	10CT	8	4.9	3 7/8x3 1/8x3 1/8	N	5.58
P-4097	10CT	8	5.2	4x3 1/4x3 5/8	C	6.06
P-5002	10CT	12	14.7	5 1/8x4 1/4x8 1/2	FA	17.01
P-3020	11CT	10	7.7	4 3/4x4x3 1/2	C	8.97
P-8130	12.6CT	2	1.4	2x3 1/4x2	A	3.09
P-6469	25.2	1	1.4	2x3 1/4x2	A	2.94

ISOLATION TRANSFORMERS

Step-down units have overall ratio of 2:1. All units have built-in electrostatic shields grounded to core and frame. Adjustment for high and low line voltage inputs permitted by three primary taps. All units for 50-60 cycle, single phase operation.

Straight Isolation (125/115/104 v to 115 v)

Stancor No.	Watts	Mtg.	H x W x D In.	Lbs.	Net Each
P-6410	50	K	3 9/16x2 15/16x3 1/8	3.7	$ 6.18
P-6160	100	KA	4 3/4x4x3 5/8	7	12.09
P-6161	250	KA	4 3/4x4x5 3/8	14.2	22.77
P-6298	500	FK	7 5/8x6 1/8x7 1/8	28	35.55
P-6125	1000	FK	7 3/4x7 3/8x6 7/8	34.8	46.65

Step-Down Isolation (250/230/210 v to 115 v)

Stancor No.	Watts	Mtg.	H x W x D In.	Lbs.	Net Each
P-6383	100	KA	4 3/4x4x3 5/8	7.3	$13.17
P-6385	250	KA	4 3/4x4x5 3/8	14.2	21.45
P-6387	500	FK	7 5/8x6 1/8x7 1/8	29.5	35.97

ISOLATION TESTING TRANSFORMER

Stancor No.	Watts	Mtg.	H x W x D In.	Lbs.	Net Each
P-6415	350	KC	5 3/8x4 1/2x5 3/4	17	$19.17

"POLY-PEDANCE" MODULATION

Multi-tapped units to match all common impedances of Cl. B modulator (2M-20M ohms) to Cl. C load imped. of 2M-20M ohms.

Stancor No.	Max. Watts	Max. Pri. DC	Max. Sec. DC	Dimensions HxWxD In.	Mtg.	Net Each
A-3891	15	100 ma	100 ma	3 3/16x2 5/8x2 7/8	D	$8.64
A-3892	30	150 ma	150 ma	4x3 1/4x3 5/8	D	10.95
A-3893	60	180 ma	180 ma	4x3 1/4x4 1/8	D	11.85
A-3894	125	225 ma	225 ma	4 3/4x4x4 5/8	D	14.31
A-3898	300	260 ma	260 ma	7 3/4x7 3/8x8 1/8	FS	44.94
A-3899	600	500 ma	500 ma	11 1/4x7 3/8x9	FS	89.40

Shipping Wts.: A-3891, 2.5 lbs.; A-3892, 4; A-3893, 6; A-3894, 9; A-3898, 37.9; A-3899, 70 lbs.

MODULATION TRANSFORMERS

Tapped to give wide range impedances for correctly matching every type load. Impedance chart and instructions with each unit.

Stan. No.	Pri. Imp.	Sec. Imp.	Watts	Mtg.	Wt. Lbs.	Net Each
A-3812	10M-CT	4000	5	A	0.7	$2.19
A-3871	4500	8500	10	TD	1.4	3.99
A-3845	10M-CT	8000/6500/5000/3000	25	C	2.8	5.01
A-3808	3800/3300-CT	10000/7500/5000/4000	60	D	7.7	11.94
A-3829	9M/6900-CT	6250/5000/4000/3300	175	D	11.4	15.15

FILTER CHOKES

Stan. No.	Hys.	Ma.	Ohms	H x W x D In.	Mtg	Lbs.	Net Each
C-1515	20.0	15	900	1 5/8x2 7/8x1 1/2	A	0.7	$1.32
C-1706	4.5	50	300	1 3/8x2 3/8x1 3/8	A	0.4	1.11
C-1707	7.0	50	550	1 3/8x2 3/8x1 3/8	A	0.4	1.17
C-1003	16.0	50	580	2x3 1/4x1 3/4	A	1.1	1.59
C-1708	13.0	65	500	2x3 1/4x1 3/4	A	1.0	1.83
C-1355	8.0	75	290	2 1/16x2 5/16x1 3/4	L	1.0	1.83
C-1002	15.0	75	400	2 1/4x3 3/4x2 1/4	A	1.7	1.95
C-1420	16.0	80	360	3 3/16x2 5/8x2 5/8	C	2.5	3.24
C-1709	8.0	85	250	2x3 1/4x2	A	1.4	2.04
C-2305	5.0	100	300	2 11/16x2 3/4x2 3/16	TD	1.5	2.82
C-1001	10.5	110	225	2 5/8x4x2 1/4	A	2.3	2.67
C-2303	2.5	130	100	2x3 1/4x1 3/4	A	1.0	1.86
C-1421	7.0	140	165	3 3/16x2 5/8x2 5/8	C	2.5	3.69
C-2304	2.3	150	60	2x3 1/4x1 3/4	A	1.0	1.92
C-2309	3.0	150	90	2 1/4x3 3/4x2 1/4	A	1.7	2.31
C-1710	7.0	150	200	2 5/8x4x2 1/4	A	2.2	2.97
C-1410	4.0	175	100	3 3/16x2 5/8x2 5/8	C	2.4	3.78
C-1646	5.0	200	90	4x3 1/4x3 3/8	C	4.5	5.40
C-1411	4.5	200	80	3 5/8x3x3 1/8	C	3.5	4.29
C-1721	8.5	200	120	3 7/8x3 1/8x3	N	4.4	5.19
C-1703	4.0	250	60	3 1/2x2 7/8x3 1/8	B	4.2	5.46
C-1412	4.0	250	60	3 5/8x3x3 1/2	C	4.3	6.27
C-2308	8.0	300	80	4 3/4x4x3 7/8	C	7.8	8.70
C-2328	0.8	375	25	2 1/2x3 3/4x2	A	1.5	3.03
C-1414	7.5	400	60	4 3/4x4x5 1/8	D	11.8	12.57
C-1415	6.0	500	75	7 5/8x6 1/8x7	FS	23.7	29.13

SWINGING CHOKES

Stan. No.	Hys.	Ma.	Ohms	H x W x D In.	Mtg	Lbs.	Net Each
C-1718	13.5-3.5	15-150	130	3 3/16x2 5/8x2 1/2	C	2.3	$3.81
C-1400	12-2	17.5-175	100	3 3/16x2 5/8x2 5/8	C	2.4	4.26
C-1401	12-2	20-200	80	3 5/8x3x3 1/8	C	3.5	4.86
C-1645	12-2	20-200	90	4x3 1/4x3 3/8	C	4.5	5.58
C-1702	12-2	25-250	60	3 1/2x2 7/8x3 1/8	B	4.3	5.58
C-1402	12-2	25-250	60	3 5/8x3x3 1/2	C	4.3	6.27
C-1720	20-4	30-300	80	4 5/8x3 3/4x3 1/2	N	7.2	7.98
C-2307	20-4	30-300	80	4 3/4x4x3 7/8	C	7.9	9.57

SMOOTHING CHOKES FOR AC-DC POWER SUPPLIES

Stan. No.	Inductance DC Ma.	DC Ohms	Mtg. Type	Dimensions H x W x D	Wt. Lbs.	Net Each
C-1080	3.5 hy. @ 50 ma.	200	A	1 5/8x2 7/8x1 1/2	0.7	$1.29
C-1325	5.0 hy. @ 50 ma.	250	A	1 5/8x2 7/8x1 1/2	0.7	1.38
C-1277	7.0 hy. @ 50 ma.	300	A	1 5/8x2 7/8x1 1/2	0.7	1.53
C-1723	4.5 hy. @ 50 ma.	325	A	1 3/8x2 3/8x1 3/8	0.7	1.20
C-1227	7.0 hy. @ 50 ma.	350	A	1 5/8x2 7/8x1 1/2	0.7	1.50
C-1279	8.5 hy. @ 50 ma.	400	A	1 5/8x2 7/8x1 1/2	0.7	1.32
C-1333	8.0 hy. @ 50 ma.	450	A	1 5/8x2 7/8x1 1/2	0.7	1.35
C-1215	9.0 hy. @ 50 ma.	500	A	1 5/8x2 7/8x1 1/2	0.7	1.23

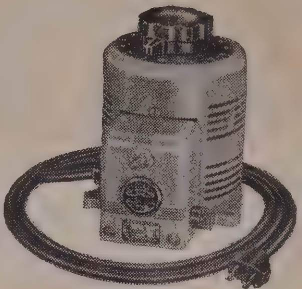
AUDIO CHOKES

Stancor No.	Hys.	Ma.	Ohms	H x W x L In.	Mtg.	Net Each
C-1003	16	50	580	2x3 1/4x1 3/4	A	$1.59
C-2301	135	5	6500	2 11/16x2 3/4x2 3/16	TD	3.81

Superior Electric Powerstats

STANDARD POWERSTAT VARIABLE TRANSFORMERS

POWERSTAT Variable Transformers are auto-transformers of toroidal core design, with a movable brush-tap which rotates to deliver a continuously-adjustable output voltage from AC power lines. Into each Powerstat are incorporated superior qualities of top electrical performance, rugged mechanical construction, compact design and durability. Powerstats feature zero waveform distortion, excellent regulation, conservative ratings, standard mountings, smooth control and high efficiency. Powerstats are available with motor drives for push-button remote control, or for use with automatic controllers.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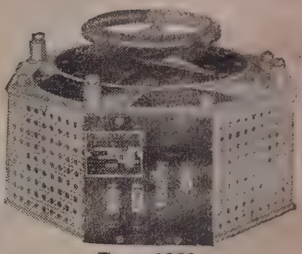
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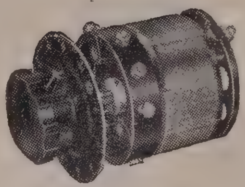
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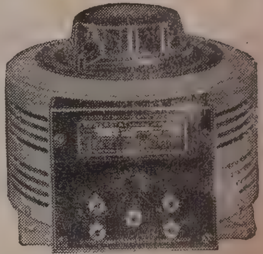

Type 136

SINGLE PHASE

Seco†† No.	Line Volt.	Freq.	Output			Price Each	
			Volt.	Max. Amp.	Max. KVA.	Manual	Motor* Driven
10	120	**60	#0-132	1.25	.165	$ 8.50	....
20	120	**60	#0-140	3.0	.42	12.50	....
116U	120	50/60	#0-140	7.5	1.0	18.00	....
116	120	50/60	#0-140	7.5	1.0	23.00	....
3PF116	120	50/60	0-140	7.5	1.0	30.00	....
3TF116	120	50/60	0-140	7.5	1.0	30.00	....
3PN116	120	50/60	0-140	7.5	1.0	30.00	....
136	120	50/60	#0-140	20.0	2.8	50.00	$190.00
F136	120	50/60	#0-140	20.0	2.8	55.00	....
2PF136	120	50/60	#0-140	20.0	2.8	65.00	....
2TF136	120	50/60	#0-140	20.0	2.8	65.00	....
3PF136	120	50/60	#0-140	20.0	2.8	65.00	....
3TF136	120	50/60	#0-140	20.0	2.8	65.00	....
3PN136	120	50/60	#0-140	20.0	2.8	65.00	....
136-2P	120	50/60	#0-140	40.0	5.6	130.00	270.00
1156	120	50/60	0-140	45.0	6.3	118.00	258.00
F1156	120	50/60	0-140	45.0	6.3	128.00	....
1156-2P	120	50/60	0-140	90.0	12.6	269.00	409.00
1156-3P	120	50/60	0-140	135.0	18.9	418.00	558.00
1156-4P	120	50/60	0-140	180.0	25.2	613.00	753.00
1156-6P	120	50/60	0-140	270.0	37.8	1015.00	1155.00
10-2E	240	**60	#0-264	1.25	.33	25.00	....
216U	†240	50/60	#0-280	3.0	.84	20.00	....
216	†240	50/60	#0-280	3.0	.84	26.00	....
3PF216	240	50/60	0-280	3.0	.84	33.00	....
3TF216	240	50/60	0-280	3.0	.84	33.00	....
3PN216	240	50/60	#0-280	3.0	.84	33.00	....
116U-2S	240	50/60	#0-280	7.5	2.1	44.50	....
116-2S	240	50/60	#0-280	7.5	2.1	49.50	....
236	†240	50/60	#0-280	9.0	2.5	50.00	190.00
F236	240	50/60	#0-280	9.0	2.5	55.00	....
2PF236	†240	50/60	#0-280	9.0	2.5	65.00	....
2TF236	†240	50/60	#0-280	9.0	2.5	65.00	....
3PF236	†240	50/60	#0-280	9.0	2.5	65.00	....
3TF236	†240	50/60	#0-280	9.0	2.5	65.00	....
3PN236	240	50/60	#0-280	9.0	2.5	65.00	....
136-2S	240	50/60	#0-280	20.0	5.6	117.00	257.00
1256	†240	50/60	0-280	28.0	7.8	118.00	258.00
F1256	240	50/60	0-280	28.0	7.8	128.00	....
1156-2S	240	50/60	0-280	45.0	12.6	261.00	401.00
1256-2P	†240	50/60	0-280	56.0	15.7	269.00	409.00
1256-3P	†240	50/60	0-280	84.0	23.5	418.00	558.00
1156-4PS	240	50/60	0-280	90.0	25.2	597.00	737.00
1256-4P	†240	50/60	0-280	112.0	31.4	613.00	753.00
1256-6PS	240	50/60	0-280	135.0	37.8	999.00	1139.00
1256-6P	240	50/60	0-280	168.0	47.0	1015.00	1155.00
216U-2S	†480	50/60	#0-560	3.0	1.7	49.00	....
216-2S	†480	50/60	#0-560	3.0	1.7	54.00	....
236-2S	†480	50/60	#0-560	9.0	5.0	117.00	257.00
1256-2S	†480	50/60	0-560	28.0	15.7	261.00	401.00
1256-4PS	†480	50/60	0-560	56.0	31.4	597.00	737.00
1256-6PS	†480	50/60	0-560	84.0	47.0	999.00	1139.00

THREE PHASE

10-2E	120	**60	#0-132	1.25	.29	25.00	....
20-2D	120	**60	#0-140	3.0	.73	37.00	....
116U-2D	120	50/60	#0-140	7.5	1.8	44.50	....
116-2D	120	50/60	#0-140	7.5	1.8	49.50	....
136-2D	120	50/60	#0-140	20.0	4.8	117.00	257.00
1156-2D	120	50/60	0-140	45.0	10.9	261.00	401.00
1156-4D	120	50/60	0-140	90.0	21.8	597.00	737.00
1156-6D	120	50/60	0-140	135.0	32.7	1015.00	1155.00
10-3E	240	60	0-240	1.25	.52	40.00	....
20L-3Y	240	60	0-240	3.0	1.2	59.50	....
216U-2D	†240	50/60	#0-280	3.0	1.5	49.00	....
216-2D	†240	50/60	#0-280	3.0	1.5	54.00	....
116U-3Y	240	**60	#0-280	7.5	3.6	61.50	....
116-3Y	240	**60	#0-280	7.5	3.6	68.00	....
236-2D	†240	50/60	#0-280	9.0	4.4	117.00	257.00
136-3Y	240	**60	#0-280	20.0	9.7	170.00	310.00
1256-2D	†240	50/60	0-280	28.0	13.6	261.00	401.00
1156-3Y	240	**60	0-280	45.0	21.8	394.00	534.00
1256-4D	†240	50/60	0-280	56.0	27.2	597.00	737.00
1256-6D	†240	50/60	0-280	84.0	40.7	1015.00	1155.00
1156-6Y	240	**60	0-280	90.0	43.6	999.00	1131.00
216U-3Y	†480	**60	#0-560	3.0	2.9	69.50	....
216-3Y	†480	**60	#0-560	3.0	2.9	76.00	....
236-3Y	†480	**60	#0-560	9.0	8.7	170.00	310.00
1256-3Y	†480	**60	0-560	28.0	27.2	394.00	534.00
1256-6Y	†480	**60	0-560	56.0	54.3	991.00	1131.00

OIL-COOLED POWERSTATS

O-116	120	50/60	0-140	15.0	2.1	95.00	....
O-216	240	50/60	0-280	6.0	1.7	99.00	....

FOOTNOTES TO ADJACENT TABLE

†Supplied with terminals for operating at one-half this input voltage if desired.

††**Letters in Part Numbers Indicate as follows:**

F—Cartridge type fuse with enclosed terminal box.

2PF—Two-prong parallel-bladed plug and receptacle, cartridge type fuse and holder.

2TF—Same as 2PF except twist-lock plug and receptacle.

3PF—Same as 2PF except with third wire grounded to frame.

3PN—Same as 3PF except NEMA plug and receptacle.

3TF—Same as 3PF except twist lock plug and receptacle.

Suffix letters and numbers (2E, 2S, 4P, 6P, etc.), indicate ganged units. Numeral shows number of units in assembly.

U—Supplied without protective screening, terminal enclosure, input cord, output receptacle, fuse or switch.

*Motor speeds for all motor-driven models prefix "M" and the speed designation to the SECO number. Time given is time for full range travel.

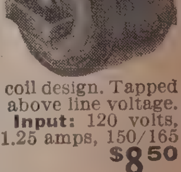
136-236 Series: For 5 seconds, prefix 5M; for 15 seconds, prefix 15M; for 30 seconds, prefix 30M; for 60 seconds, prefix 60M. (For example, 30M136).

1156-1256 Series: For 6 seconds, prefix MZ; for 14 seconds, prefix MY; for 19 seconds, prefix MX; for 45 seconds, prefix MW. (For example, MW1156).

**If the maximum output voltage is limited to the input voltage, the frequency range is 50-60 cycles.

#Unit supplied with terminals for limiting output voltage to line voltage if desired. Other units must be ordered "L" connected.

TYPE 10 POWERSTAT

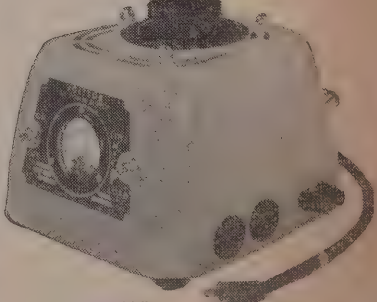


For use as the variable AC voltage component in equipment with the relatively low requirements of 50, 100 and 150 watts. It is an autotransformer of toroidal design with a movable brush tap. Rotation of tap delivers any desired output voltage from **0 to 132 volts.** Adjustment, to fractional voltages if desired, is smooth and stepless. It will deliver a variable voltage to any load up to its rated capacity. Includes a glass-smooth commutator surface, advanced winding technique, zero waveform distortion and superior core and coil design. Tapped to allow range from 0 to line voltage or to 10% above line voltage. Easily installed, mounts under a 3″ chassis. **Input:** 120 volts, 60cps, 1 phase. **Output:** 0-120 or 0-132 volts, 1.25 amps, 150/165 VA. **Weight:** 1 lb. 13 oz.

Superior Electric Model 10—Price Each.............. $8.50

VOLTBOX AC POWER SUPPLY

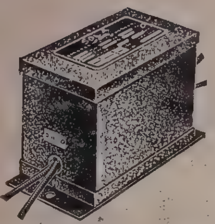
Powerstat variable transformer, direct reading voltmeter, 3 output receptacles and 2 Superior binding posts. Separate Off-On switches, fully fused. 6-ft. line cord, plug.


UC1M

Type UC1M Input: 120 V. 50/60 cycles single phase AC. Output: 0-140 V. 7.5 amps, 1000 va. Price Each... $53.00

Type UC2M—Input: 240 V. 50/60 cycles single phase AC. Output: 0-280 V. 3.0 amps, 840 va. Price Each.... $55.00

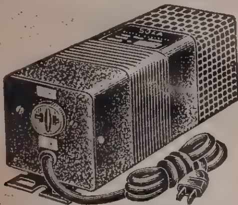
Sola Constant Voltage Transformers



Type 1

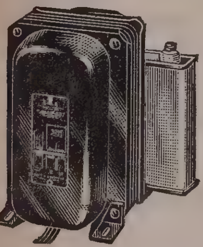
Type 1—Adapted for use in commercial equipment and available for standard or special units up to 15VA, 60 cps. Compound filled, provides enclosure for both transformer and capacitor elements.

Type 2



Type 2—Direct ventilation for exposed core laminations and enclosure of coils in end-bell housings. Primary cord set. For units up to 150VA, 60 cycles.

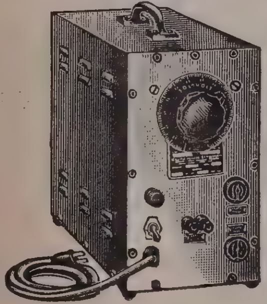
SOLA CONSTANT VOLTAGE TRANSFORMER TYPE CVE



Delivers filament and plate voltages regulated within ±3% or less, with line voltage variations of 100-130 volts. This modification provides a compact regulated source of plate and filament windings on the same core. It enables the enjoyment of a constant voltage power supply at a moderate cost.

Sola No.	Output Cap. in V.A.	Shpg. Wt., Lbs.	Net Each
7104-5	42	5½	$10.15
7106	75	8¾	12.60
7107	210	19	19.60

NEW SOLAVOLT REGULATED AC VOLTAGE SUPPLIES TYPE CVL



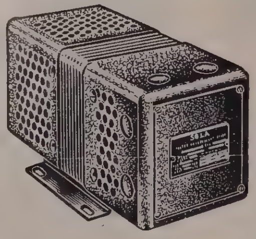
Adjustable and regulated AC voltage supplies with harmonic filters designed for use with equipment that requires constant AC voltage from 0-130 volts of undistorted wave-shape. Recommended for operations involving elements which are sensitive to power frequencies harmonically related to the fundamental. Solavolt units provide voltage regulation of ±1% for line input changes from 95 to 125 volts, with less than 3% total harmonic distortion of the output voltage wave. Regulation is automatic and substantially instantaneous — maximum response time is 1.5 cycles. All units self-protecting against short circuits.

Type 50105—Maximum current, 3 amps. 250VA. 11⅛ x 7½ x 12⅝.
Net Each.................. $\$110^{00}$

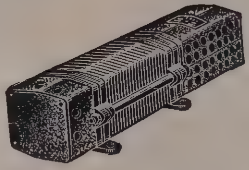
Type 50106—Maximum current, 7.5 amps. 500VA. 12⅛ x 7½ x 14⅜.
Net Each.................. $\$153^{00}$

Sola Constant Voltage Transformers maintain constant output voltage within ±1% with as much as ±15% line voltage fluctuation. The electrical circuit has 3 windings: an intermediate, a resonant and a compensating winding; as well as primary winding. Magnetic circuit is a closed core with shunts. Input volt-amperes, watts and power factor are mainly determined by load and are essentially independent of input voltage. Input power factor is 95-100% at full rated load, approx. 75% at half load. Eff., full load, 80-87%.

Sola No.	Type Structure	Volt Amperes	Voltage		Net Each
			Input	Output	
30488	1	15	95-125	6.0	$16.00
30492	1	15	95-125	6.3	16.00
30498	1	15	95-125	115	16.00
301002	12	15	95-125	6.3	20.00
301003	12	15	95-125	115	20.00
30804	2	30	95-125	115	18.00
30805	2	60	95-125	115	25.00
30806	2	120	95-125	115	33.00
30888	2	150	95-125	115	40.00
30881	21	25	95-125	6.3	17.00
30882	21	50	95-125	6.3	24.00
30885	22	60	95-125	115	25.00
30886	22	120	95-125	115	33.00
20-13-125	3	250	95-125	115	52.00
20-20-125	3	250	190-250	115	52.00
20-13-150	3	500	95-125	115	81.00
20-20-150	3	500	190-250	115	81.00
20-13-210	4	1000	95-125	115	135.00
20-20-210	4	1000	190-250	115	135.00
30811	4	2000	95-125	115	245.00
30M811	4	2000	190-250	115	245.00
30968	4	2000	190-250	230	245.00
301706	41	3000	95/190-125/250	115	345.00
301707	5	3000	190/380-250/500	230	345.00
301704	5	4000	95/190-125/250	115	435.00
301702	5	5000	95/190-125/250	115	515.00
301703	5	5000	95/190-125/250	230	515.00
301700	6	10000	190/380-250/500	115	990.00
301701	6	10000	190/380-250/500	230	990.00

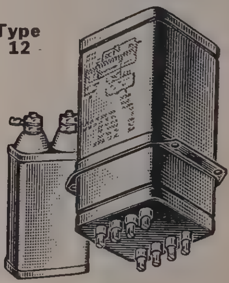


Type 3



Type 4

Type 12



Type 3—160 to 600VA, 60 cps. Direct ventilation, capacitor enclosed. Insulating barrier between transformer and capacitor.

Type 4—Normally employed on units from 650 to 2300VA, 60 cps. Direct ventilation to core laminations. Primary and secondary terminals separated in terminal box.

Type 6 (Not Ill.)—Triplex structure for units between 6000 and 10,000 VA. Triple core and coil assemblies interconnected. Input and output to outlet box.

Type 12—Hermetically sealed, core and coil of transformer only. Capacitors furnished separately, included in price. Available for units to 15VA, 60 cps.

Type 21 (Not Ill.)—Similar to Type 2, except provided with output terminals.

Type 22 (Not Ill.)—As above, except equipped with both Pri. and Sec. terminals.

Type 41 (Not Ill.)—For units between 2300 and 3500VA. Capacitors enclosed in separate, louvred compartment. Pri. and Sec. terminals in separate compartments.

PLUG-IN TYPE SOLA CONSTANT VOLTAGE TRANSFORMERS FOR TV

CVA
No. 7202
7201

These units may be operated over a range of 175 VA to 300 VA to perform on all 10″ and most 12″-24″ TV receivers. If additional outlets are provided for changers, etc., check the load to see that the 300 VA will not be exceeded. These units are equipped with a series operated relay. It functions when set switch is closed, and connects the CVA into the primary.

Sola No. 7202—For 10″ to 24″ sets, VA from 175-300. 9⅛ x 4½ x 7¼. Shipping weight 26 lbs.
Net Each.................. $\$37^{50}$

Sola No. 7201—For 7″ and 10″ sets, VA from 110-180. 8⅛ x 4½ x 7¼. Shipping weight 19 lbs.
Net Each.................. $\$34^{50}$

SOLA LOW HARMONIC DISTORTION TYPE CVH

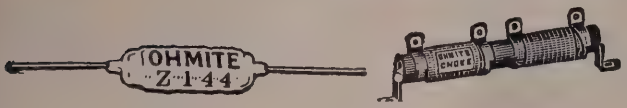
Type
5005

Designed for use with equipment that requires a stabilized source of undistorted voltage. Less than 3% harmonic distortion in the output voltage wave. Input 95-125 volts; Output 115 volts. Two-unit channel-mounted construction. Enclosed terminals. *Equipped with primary cord, secondary receptacle.

Sola No.	Output V. A.	Shpg. Wt. Lbs.	Net Each
5003*	60	35	$ 35.00
5004*	120	45	44.00
5005	250	60	70.00
5006	500	70	105.00
5008	1000	160	175.00
5010	2000	320	310.00

Chokes, Filters, Dummy Antennas

OHMITE CHOKES AND DUMMY ANTENNAS



R. F. PLATE CHOKES

High frequency chokes, single-layer wound on low power factor steatite or plastic core—insulated and protected by moisture-proof coating. The single layer winding is designed to avoid adverse harmonic effects and also prevents breakdown from high RF potentials. Non-magnetic mounting brackets are furnished with largest size, type Z-7. Used in diathermy and therapeutic equipment as well as in radio transmitters.

Ohmite No.	Freq. Range, MC.	Micro-henries	Core Dim.	Net Each
Z-460	320-520	0.20	½" x 5/32"	23c
Z-235	160-350	0.84	¾" x 3/16"	
Z-144	80-200	1.8	¾" x 3/16"	
Z-50	35-110	7.0	⅞" x 9/32"	
Z-28	20-60	21.0	1¾" x [illegible]/16"	$0.32
Z-14	7-35	44.0	2" x 7/16"	.49
Z-7	3-20	84.0	6" x 9/16"	1.12

POWER LINE CHOKES

These units prevent high-frequency currents of radio transmitters, diathermy and other RF equipment from going out over the power lines and interfering with nearby receivers. Used as filter in connection with two grounded condensers of 0.1 mfd. each. Z-20 can also be used at receiver. Consist of 2 single-layer windings on single ceramic core, insulated and protected by moisture-proof coating. For RF interference only.

Ohmite No.	Micro-henries	Amps.	DC Ohms	Core Dim.	Net Each
Z-20	14	5	0.15	4" x 9/16"	$1.54
Z-21	15	10	0.07	6½" x ¾"	2.59
Z-22	18	20	0.045	8½" x 1⅛"	3.73
Z-30*	46	20	0.085	8½" x 1⅛"	5.62

*One section wound as second layer over other.

RUGGED NON-INDUCTIVE DUMMY-ANTENNA RESISTORS

TYPES D-101 AND D-251

These Dummy-Antenna resistors have been designed to replace the glass-enclosed type. These new units consist of a number of special vitreous enameled resistors connected in parallel in a concentric arrangement and mounted inside a perforated metal cage. They feature constant R.F. resistance (within the recommended frequency range), low reactance, high wattage dissipation, and compactness.

Actual D.C. resistance tolerance is ±5%. A simple, accurate, and direct means of measuring R.F. power is provided to the radio amateur, experimenter and manufacturer and to operators of aviation, police and broadcast stations.

The table below lists the upper limit of frequency at which the various dummy-antennas may be used and gives other characteristics. These limits are based on the arbitrary assumption that a ±10% impedance change (of its scalar value) is permissible. For further information please write for Bulletin 136A.

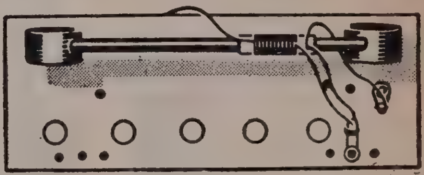
Ohmite No.	Watts	Ohms (± 5%)	Dimensions Dia.	Dimensions Lgth.	Dimensions Mtg.	Net Each
D-101-52	100	52	3 5/32"	2 23/32"	3½"	$ 6.08
D-101-73	100	73	3 5/32"	2 23/32"	3½"	6.08
D-101-300	100	300	3 5/32"	4 7/32"	3½"	6.08
D-101-600	100	600	3 5/32"	4 7/32"	3½"	6.08
D-251-52	250	52	3 23/32"	4 19/32"	3⅞"	12.17
D-251-73	250	73	3 23/32"	4 19/32"	3⅞"	12.17
D-251-300	250	300	3 23/32"	6 13/16"	3⅞"	12.17
D-251-600	250	600	3 23/32"	6 13/16"	3⅞"	12.17

AMPHENOL

POLYSTYRENE COIL FORMS

Amph. No.	Description	Net Each
24-4P	4 pin tube base. 1¼" O.D., 2¼" L.	24c
24-5P	5 pin tube base. 1¼" O. D., 2¼" L.	24c
24-6P	6 pin tube base. 1¼" O. D., 2¼" L.	24c
24-6H	6 pin miniature. ¾" O. D., 1 9/16" L.	24c
24	Center hole for bolt. ¾" O.D., 1 9/16" L.	9c

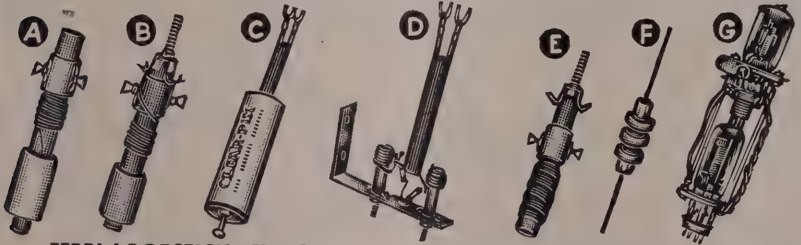
MILLER FERRITE LOOP ROD ANTENNA



Ideal for general replacement. Offers outstanding performance. Improves reception of distant stations, better reception on local stations. Has an adjustable inductance which makes it possible to peak the antenna stage; this also enables use with a variety of tuning condensers. Tunes the B.C. band with 300 to 400 mmf, variable condenser. Size 9½" x 3¼".

Miller Model 705-A—Net Each.................... $1^65

SUPEREX COMPONENTS



FERRI-LOOPSTICK—Fig. A

These are the most sensitive small radio antennas ever made. Substitute them for the old type loops in every radio being repaired. Set improvement will be tremendous.

Superex Model FL—Net Each.... 45c

VARI-LOOPSTICK—Fig. B

This antenna includes the same features as the Ferri-Loopstick plus a Micrometer adjustment and one-hole mount.

Superex Model VL—Net Each..... 60c

CLEAR-PIX TV INTERFERENCE FILTERS Fig. C

Each of the four models rejects a specific type of interference. They incorporate scientifically designed and proved circuits. High rejection efficiency. Install in less than 1 minute.

Superex Model	Type Rejection	Net Each
CPF	FM	$1.19
CPD	Diathermy	1.19
CPI	Ignition	1.19

DUAL TUNABLE TV INTERFERENCE FILTERS—Fig. D

For professional installations and where interference is intense. Precision-engineered. Incorporate a dual set of coils and condensers center-tapped to ground for greater efficiency. Very easy to install and balance.

Superex Model	Type of Rejection	Net Each
SW-10	10 meter band	$1.65
SW-20	20 meter band	1.65
DT	Diathermy	1.65
FM	FM	1.65

VARI- & FERRI-CHOKES—Fig. E, F

Smallest, most efficient chokes ever made. Have higher "Q", lower DC resistance, distributed weight; require less copper; easier to handle. Employ new Ferricore Ferrite cores.

FERRI-CHOKES (FIXED)

Superex Model	Milli-henries	Milli-amps	Net Each
F-25	2½	125	45c
F-50	5	125	51c
F100	10	125	60c
HD25	2½	300	48c

VARI-CHOKES (ADJUSTABLE)

V6	.65-6.00	....	72c
V25	5.0-43.0	....	84c

TV-IF SIGNAL BOOSTER—Fig. G

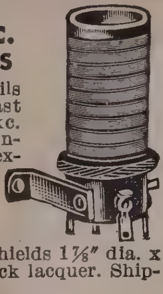
An added stage of TV-IF wired up in adaptor form. Produces excellent results in near-fringe areas and where modest gain is required. Overcomes roof antenna restrictions. Amplifies signal over 20% on all channels. Eliminates or minimizes "snow." No switches or external connections. Permanent, easy installation inside cabinet. Tube not included.

Superex Model TSB-1—Net.... $5^97

We Carry a Complete Stock of

TV Parts and Accessories

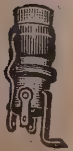
FM-AM Coils and IF's by Meissner

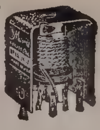


"STANDARD" B. C. ANT.—R. F. COILS

Standard type air-core coils designed to cover broadcast band from 545 to 1620 kc. with a 365 µµf tuning condenser. These coils make excellent replacement units. All coils have high impedance primaries and litz wire secondaries. Available shielded or unshielded. Shields 1⅞″ dia. x 2½″ high finished in black lacquer. Shipping weight 4 oz.

Unshielded			Shielded	
Meiss. No.	Net Each	Type	Meiss. No.	Net Each
14-1010	75c	Ant. Coil	14-1004	$1.05
14-1011		R.F. Coil	14-1005	



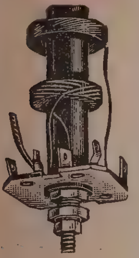


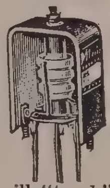
MIDGET ANT. AND R. F. COILS

Especially designed for use where space is at a premium. Cover the B. C. band with a 365 µµf. tuning condenser. High impedance primaries, litz wire secondaries. Types 14-1022-23 are wound on ⅝″ dia. x 1¾″ long forms. Types 14-2436-37 have bakelite forms ½″ dia. Shields are 1⅜″ square x 2″ high. Shipping weight Shielded 5 oz., Unshielded 4 oz.

Unshielded			Shielded	
Meiss. No.	Net Each	Type	Meiss. No.	Net Each
14-1022	66c	Ant. Coil	14-2436	90c
14-1023	75c	R F. Coil	14-2437	

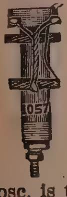
B. C. ADJUSTABLE INDUCTANCE COILS





Adjustable inductance HiQ iron-core coils used for replacement in practically any receiver eliminating necessity for "exact duplicates." Continuously variable, they will "track" with other coils. Exact inductance of old coil accurately matched by simple screwdriver adjustment. Oscillator coils provide I-F freq. between 175 and 520 kc., may be used in either "cut plate" or padded circuits. Black crackle finish shields are 1¾″ square x 2½″ high. Shipping weight Shielded 5 oz., Unshielded 4 oz.

Unshielded			Shielded	
Meiss. No.	Net Each	Type Coil	Meiss. No.	Net Each
14-1026	$1.32	Ant.	14-7413	$1.80
14-1027		R.F.	14-7558	
14-1028		Osc.	14-7560	

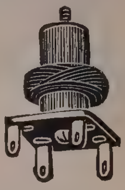


ECONOMY ADJUSTABLE INDUCTANCE COILS

Inexpensive, adjustable inductance coils, efficient and compact. B. C. coils 7/16″ x 2″. S. W. coils 7/16″ x 1⅝″ Ant. and R. F. coils have high impedance primaries and litz wire secondaries. B. C. osc. is two winding type. S. W. osc. coils tapped for 6SA7. B. C. coils adjustable for any gang condenser 280 to 420 µµf. S. W. coils for use with condenser of 292 µµf.

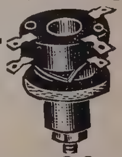
Meissner No.	Type	Net Each
14-1056	B.C. Ant. Coil	$1.32
14-1057	B.C. R.F. Coil	
14-1058	B.C. Osc. Coil	
14-1061	1.7-5.3 mc. Ant. Coil	$1.35
14-1062	1.7-5.3 mc. R.F. Coil	
14-1063	1.7-5.3 mc. Osc. Coil	
14-1064	5.3-16.5 mc. Ant. Coil	
14-1065	5.3-16.5 mc R.F. Coil	
14-1066	5.3-16.5 mc. Osc. Coil	

STANDARD OSCILLATOR COILS



Broadcast band oscillator coils designed for use with either Standard or Midget coils listed on this page. For use with 365 µµf tuning condenser. Frequency coverage 545 to 1620 kc. Size 1¾″ high x 1⅜″ square. Shipping weight Unshielded 4 oz., Shielded 5 oz.

Meissner No.	I. F. Freq.	Padder Req.	Net Each
Unshielded			
14-3732	175 kc.	900 µµf.	75c
14-6590	262 kc.	700 µµf.	
14-6592	370 kc.	500 µµf.	
14-4034	455 kc.	350 µµf.	
Shielded			
14-4242	175 kc.	900 µµf.	90c
14-4243	455 kc.	350 µµf.	



6SA7 OSCILLATOR COIL

Tapped type coil for 6SA7 tube. For use with 420 µµf condenser.
Meissner No. 14-1033—Net...... 66c

For use with 162 µµf "cut" section condenser.
Meissner No. 14-1053—Net...... 66c

"UNIVERSAL" ADJUSTABLE INDUCTANCE OSCILLATOR COIL

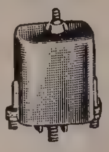
A truly universal oscillator coil for 455 kc. I. F. Primary is tapped for use with any of 25 different type oscillator tubes. Instructions included.
Meissner No. 14-1040—Net..... $1.50

SHORT WAVE ADJUSTABLE INDUCTANCE COILS

Adjustable by means of a HiQ iron-core. Coils wound on a 7/16″ O. D x 1⅝″ long bakelite form. To tune with 292 µµf. condenser.

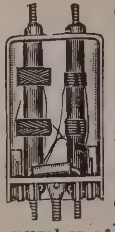
1.7 to 5.3 mc.		Range	5.3 to 16.5 mc.	
Meiss. No.	Net Each	Type Coil	Meiss. No.	Net Each
14-1041	$1.50	Ant.	14-1044	$1.50
14-1042		R.F.	14-1045	
14-1043		Osc.	14-1046	

10.7 MC. FM I-F TRANSFORMER AND DISCRIMINATOR COIL



Permeability tuned. Close tolerance, high stability shunt capacities. Mounted in ⅞″ x 1 7/16″ rectangular shield 1 29/32″ high. Spade bolt mtg. Four I-F transformers and one discriminator coil are recommended for a 10.7 mc. FM I-F channel.

Meiss. No.	Type	Net Each
16-6665	10.7 mc. I-F Trans.	$2.10
17-3484	10.7 mc. Discrim. Coil	1.98



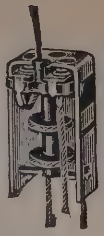
FM-AM "COMPOSITE" I-F TRANSFORMER

Contains a 455 kc. AM and a 10.7 mc. FM I-F transformer. Each circuit tuned by separate HiQ powdered iron-core. Terminals on base of unit. Can size 1⅜″ square x 2½″ long. Spade bolt mtg. Two of these units with type 17-3487 ratio detector coil below recommended for an AM-FM set when minimum number of tubes is desired.
Meissner No. 16-6675—Net Ea... $3.00

FM RATIO DETECTOR COIL

Companion coil to transformer above or may be used with a straight 10.7 mc. I-F transformer to make FM converters. Iron-core tuning. Polyethylene twin wire secondary for perfect balance and better stability. Shield 1⅜″ square x 2½″ long. Shipping weight 4 oz.
Meissner No. 17-3487—Net Ea... $1.98

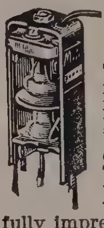
"PLASTIC" I-F TRANSFORMERS



For use in small receivers where space is at a premium. Only 1¼″ square x 2½″ high. One-piece molded plastic coil-form and trimmer-base, not affected by moisture. The iron-core series are recommended in all sets using only one I-F stage, because of their high-gain.

Meiss. No.	Freq. Range	Peak Fact. Set.	Use	Net Each
16-6649	140-200	175	*	$1.20
16-6650	140-200	175	**	
16-6651	140-200	175	†	
16-6652	200-310	262	*	$1.05
16-6653	200-310	262	**	
16-6654	200-310	262	†	
16-6655	305-480	370	*	90c
16-6656	305-480	370	**	
16-6657	305-480	370	†	
16-6658	400-550	455	*	$1.05
16-6659	400-550	455	**	
16-6660	400-550	455	†	
HiQ Iron-Core "Plastic" I-F's				
16-6662	380-600	455	*	$1.50
16-6663	380-600	455	†	

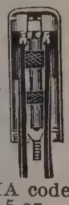
*Input. **Interstage. †Output.



STANDARD I-F TRANSFORMERS

This series of Air-core I-F Transformers is accepted as standard for general replacement purposes. Gain characteristics have been designed to correspond closely with average values. Transformers are double-tuned with creamic-base, mica-dielectric trimmers. Windings are fully impregnated. Insulated RMA color-coded lead wires. Aluminum-finish shield 1⅜″ square x 3″ high. Shipping weight 6 oz. Net Each........... $1.50

Meissner No.	Freq. Range	Peak Fcty. Setting	Use
16-5700	121-235	175	Input
16-5702	121-235	175	Output
16-3731	121-235	175	Output C.T.
16-5704	220-360	262	Input
16-5706	190-325	262	Output
16-5712	425-650	455	Input
16-6133	435-1000	455	Interstage
16-5714	425-650	455	Output
16-3736	255-550	455	Output C.T.



¾″ SQUARE I-F TRANSFORMER

For replacement or construction work in portable or compact AC-DC sets. Design of AC-DC type allows same transformer to be used as input or output. HiQ powdered iron-core. Compression type trimmers. Shield ¾″ square x 2″ long. Spade bolt mtg. 455 kc. freq. RMA coded push-back leads. Shipping weight 5 oz.

Meiss. No.	Use	Net Each
16-6668	"Battery" type Input	$1.44
16-6669	"Battery" type Output	
16-6678	AC-DC type Input or Output	

SMALL "PLASTIC" I-F TRANSFORMERS

Similar to types above but with smaller shields. Measure 1⅛″ square x 2½″ high. 455 kc. Universal replacement for many post-war receivers. Weight 5 oz.
Meissner No. 16-6666—Input Net............................... $1.32
Meissner No. 16-6667—Output Net............................... $1.32

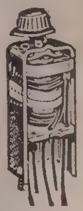
"TWEET" FILTER OUTPUT I-F

455 kc. I-F with built-in "tweet" filter in secondary circuit. For replacement use in late-model receivers that have "tweet" filter enclosed in I-F output shield. 1¼″ square x 2½″ high. Spade bolts spaced 1 3/16″ mounted inside shield. Weight 5 oz.
Meissner No. 16-6670—
Net Each........................... $1.62

Video Coils, Chokes

Meissner

PHONO-OSCILLATOR COIL



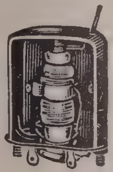
For wireless or direct-connected phonograph-oscillator units wherever phonograph reproduction is through the radio receiver. Knob adjustment permits selection of clear frequency in the broadcast band. Aluminum finish shield, 1⅜" square x 3½" high. Shipping weight 4 oz.

Meissner No. 17-9373 Net................ $2.25

B. F. O. COIL

For use with standard I-F's in superhet receivers. They supply the "beat" note necessary to reception of C. W.; aid in tuning and locating weak signals. Mica trimmed. Freq. range 290-650 kc. Peaked at 456 kc. Can size 1⅜" square x 3½" high. Knob for pitch control. Wt. 6 oz. $1.80
Meissner No. 17-6753—Net.....

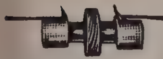
AIRCRAFT BAND COILS



Compact coils to cover the 195 to 410 kc range with 365 μμfd. condenser. Impregnated windings withstand weather changes. Shield can 1⅜" square x 1¾" high.

Meiss. No.	Use	Net Each
14-1030	Antenna	$2.79
14-1031	R. F.	
14-1032	Oscill.	

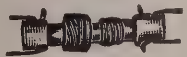
VIDEO PEAKING COILS



This Iron Core series permits accurate screw driver adjustment of frequency response in video amplifier stage.

Meissner No.	Frequency Range	Net Each
19-1920	65 to 115 uh.	72c
19-1921	115 to 195 uh.	
19-1922	195 to 325 uh.	
19-1923	325 to 500 uh.	

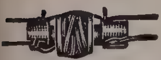
MINIATURE BROADCAST ANTENNA AND R. F. COILS



The small size, 1½" x ½", and the adjustable inductance, makes these coils ideally suited to replacement in compact circuits or where mounting or original coil is difficult to duplicate. Designed to cover the broadcast band with gang condensers having effective capacities of 280 to 420 μμf.

Net Each
Meissner No. 14-1071—Antenna. $1.05
Meissner No. 14-1072—R. F.....

MINIATURE ADJUSTABLE BROADCAST OSCILLATOR COIL (IRON CORE)

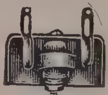


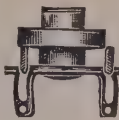
With 100 μμf. capacity interwinding. For use with 6SA7, 12SA7, 6BE6, 12BE6, 7Q7 and 14Q7 tubes in receivers having 455 kc. I.F. and with effective gang condenser capacities of 108 to 180 μμf. in unpadded circuits, and 365 to 420 μμf. in padded circuits. Adjustable iron core permits accurate adjustment for proper tracking and calibration. Size 1" x ⅜" permits use in the most compact circuits. $1.05
Meissner No. 14-1073—Net Each

MINIATURE ADJUSTABLE BROADCAST OSCILLATOR COIL FOR BATTERY AND 3-WAY PORTABLES

The small size, 1" x ⅜", of this coil and the wide range of inductance adjustment, makes it ideal as a replacement unit in most battery and 3-way portables. Its inductance range allows its use with gang condenser capacities of 108 to 180 μμf. and allows accurate adjustment of inductance for proper calibration and tracking $1.05
Meissner No. 14-1074—Net Each

AIR-CORE R. F. CHOKES





Coils are wound on specially treated dowels, mounted on a bakelite terminal base, and thoroughly moistureproofed. Available in shielded or unshielded types, both single-hole mounting. Shielded chokes have terminals through top of can so unit may be mounted on inside wall of chassis. Shield cans are bright aluminum finish, 1⅜" square.

UNSHIELDED

Meissner No.	Inductance	Net Each
19-1994	2.5 MH	54c
19-4551	5.5 MH	
19-2078	8.0 MH	
19-8770	10.0 MH	
19-1995	16.0 MH	.60
19-2330	30.0 MH	.78
19-3247	60.0 MH	84c
19-2709	80.0 MH	

SHIELDED

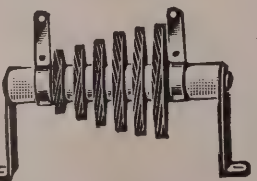
Meissner No.	Inductance	Net Each
19-5582	2.5 MH	78c
19-5584	5.5 MH	
19-5588	8.0 MH	
19-1900	10.0 MH	90c
19-5590	16.0 MH	
19-5592	30.0 MH	
19-5594	60.0 MH	$1.20
19-5596	80.0 MH	

IRON-CORE R. F. CHOKES

These accurately wound chokes provide maximum efficiency—lower DC resistance per MH. High permeability iron-cores, wax-impregnated coils, universal wound; single-hole mounting; unshielded only.

Meissner No.	Inductance	Net Each
19-6834	2.5 MH	$0.68
19-6840	10.0 MH	.87
19-6842	30.0 MH	1.02
19-6844	60.0 MH	1.16
19-6846	80.0 MH	1.30
19-6848	125.0 MH	1.67

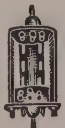
TRANSMITTER CHOKES



Highly efficient RF chokes for amateur or commercial use. Six lateral-wound sections provide effective action over a wide frequency range. Low distributed capacity; windings are on ceramic core with tapped end holes. Mtg. brackets included Shipping wt. 8 oz.

Meissner No.	Cur. Cap., Ma.	Induc. Mh.	Resistance, Ohms	Net Each
19-3019	1000	2.8	5.0	$2.40
19-3022	500	5.5	12.5	
19-3025	200	5.9	34.9	

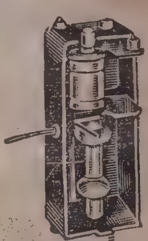
455 KC. NARROW BAND DISCRIMINATOR COIL



Designed for use in adapters for converting regular communications receivers with 455 kc. I.F. systems for reception of narrow band frequency modulation on amateur bands or for use in the construction of complete FM receivers for ham use. Use of a limiter stage ahead of the discriminator is recommended. Peak separation of discriminator is approx. 25 kc. and usable linear portion of characteristic is about 15 kc.—ample for amateur applications where deviation ratio is of the order of one or less. Shield 1⅜" sq. x 2½" long. $2.28
Meissner No. 17-3486—Net Ea..

282-54A

"ALIGN-AIRE" I. F. TRANSFORMERS



The finest IF transformers available. Unexcelled in stability, unaffected by humidity changes, nonmicrophonic and dustproof. Hi-Q Iron-Cores are used for the utmost in selectivity and sensitivity. All types are double-tuned. Wide individual coverage to answer practically any problem in replacement or new set design. Black crackle shields are 2" x 2" x 4¾". Freq. range 415-540 kc. Peak Fact. set 455. Net Each................ $7.20

Meiss. No.	Selectivity Band Width			Use
	2x	10x	20x	
16-6643	7.0	16.0	22.0	Input
16-6645	9.0	25.6	36.2	Output
16-6139	9.5	23.2	33.5	Output C.T.

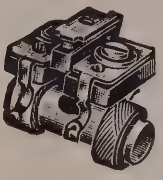
HiQ IRON CORE I. F. TRANSFORMERS

Designed as original parts in high-gain receivers of superior quality, these transformers find consistent application in stepping up the performance of old receivers. The special powdered-iron core used in the coils permits higher "Q" with resultant increase in selectivity and gain. All units are double-tuned with ceramic-base mica-dielectric trimmers. Windings are of high-grade Litz wire, thoroughly impregnated. Shield is bright aluminum, 1⅜" square x 3" high.

Meiss. No.	Freq. Range	Peak Fact. Set.	Use	Net Each
16-5728	127–206	175	*	$1.98
16-5730	127–206	175	†	
16-5740	360–600	455	*	$1.80
16-5742	360–600	455	†	
16-8091	1050–2000	1500	**	
16-8099	1050–2000	1500	†	

*Input. †Output. **Interstage output.

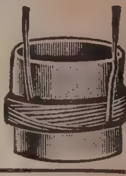
CARTWHEEL I-F



New, ultra-compact unshielded I-F transformer, complete with dual trimmers. Useful for replacement in many types of compact assemblies. Size 1⅜" x 1½" x 1¼" high. One-piece molded plastic trimmer base, for 455 kc. only. Shipping weight 4 oz.

Meissner No. 16-6661—Net Each $1.08

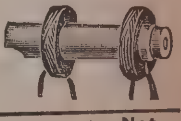
SLIP-OVER PRIMARIES



Provide economical replacement of burned out primaries on all types of Ant. and R. F. coils. Windings are high-impedance type for improved performance. Sizes listed below are outside dia. over which the replacement coil will fit. Shipping weight 4 oz.

Meissner No.	For Coil O. D.	Net Each
14-6850	1¼"	29c
14-6852	1"	26c
14-6854	⅞"	26c
14-6856	¾"	26c
14-8418	½"	23c

REPLACEMENT I-F WINDINGS

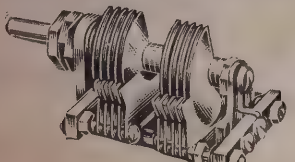


Wound on ⅜" dia. x 1¾" long cores. Coupling is adjustable by sliding primary coil. Complete instructions furnished. Weight 4 oz.

Meissner No.	Freq.	Type	Net Each
16-6600	175	Std.	62c
16-6601	455	Std.	62c
16-6602	175	C. T.	80c
16-6603	455	C. T.	80c

National Components

VARIABLE CONDENSERS



TYPE

ST

Type ST condensers have Straight-Line Wavelength plates. All double-bearing models have the front bearing insulated to prevent noise. On double-bearing single shaft models the rotor contact is through a constant impedance pigtail. Steatite insulation. 180° rotation.

SINGLE BEARING MODELS ST

Nation. No.	Capacity, μμf. Min.	Capacity, μμf. Max.	No. Plates	Net Each
STHS-15	3	15	3	$1.90
STHS-25	3.25	25	4	2.19
STHS-50	3.5	50	7	2.42

SPLIT STATOR DOUBLE BEARING MODELS

STD-50	5–5	50–50	11–11	$4.14
STHD-100	5.5–5.5	100–100	14–14	4.49

DOUBLE BEARING MODELS

ST-35	6	35	8	$2.13
ST-50	7	50	11	2.19
ST-75	8	75	1.	2.30
ST-100	9	100	20	2.42
ST-140	10	140	27	2.65
ST-150	10.5	150	29	2.65
STH-200	12.0	200	27	2.88
STH-250	13.5	250	32	3.11
STH-300	15.0	300	39	3.34
STH-335	17.0	335	43	3.57

VHF CONDENSERS

Isolantite end plates, ball bearings front and rear, shaft extension at rear for hanging. Stators, rotors and stator straps silver plated. Spade bolt mounting to chassis. Split-stator construction allows short and efficient leads to coils. Supplied with flexible couplings for ganging. End plates 1.875″ wide x 1.344″ high.

SINGLE SPACED MODELS

Nation. No.	Capacity, μμf. Min.	Capacity, μμf. Max.	Sections	Net Each
VHF-1S	3.0	22.5	1	$13.08
VHF-2S	3.0	22.5	2	23.07

DOUBLE SPACED MODELS

VHF-1D	3.0	6.75	1	$13.08
VHF-2D	3.0	6.75	2	23.07

SHAFT COUPLINGS
(NOT ILLUSTRATED)

TX-19—A steatite insulated flexible coupling for ¼″ shafts. Conservatively rated at 5000 volts peak. Diameter 1⅜″, length 1″. Length and flashover voltage can be increased by turning collars outboard. Net Each........................**$1.44**

Type TX-2—Leakage path 2½″. Net. **86c**

Type TX-23—A deluxe insulated flexible coupling designed for coupling ¼″ shafts. Will handle a maximum radial misalignment of 1/16″, also 2° maximum angular misalignment. Net Each.........**$1.55**

Type TX-24—Fits 5/32″ shafts. Net. **$1.55**

Type TX-25—TX-23 non-insulated **1.55**

Type TX-8—A non-flexible rigid coupling with steatite insulation. 1″ diameter. Fits ¼″ shafts. Net Each...............**69c**

Type TX-10—A very compact insulated coupling free from backlash. Insulation is canvas bakelite. 1 1/16″ diameter. Fits ¼″ shaft. Net Each.................. **46c**

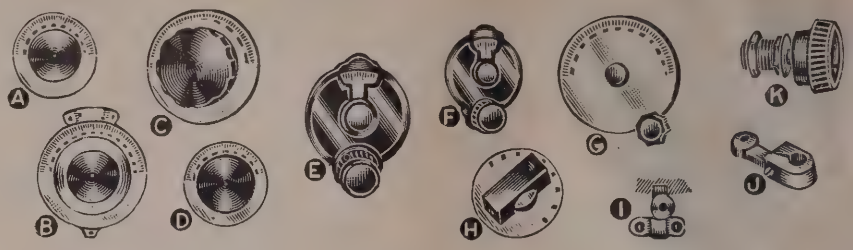
TYPE UM VARIABLES

Type UM condensers are low-loss aluminum plate staked construction miniature variables. Have ¼″ shafts front and rear for ganging. Base 1″ x 2¼″. Hardware supplied.

Nat. No.	Cap.* Max.	Cap.* Min.	Air Gap, Inches	Net Each
UM-15	15	1.5	.017	$1.17
UM-35	35	2.5	.017	1.32
UM-50	50	3	.017	1.43
UM-75	75	3.5	.017	1.67
UM-100	100	4.5	.017	1.84

* In mmfd.

DIALS FOR ALL PURPOSES



AM DIAL (**Fig. A**)—"Velvet Vernier" mechanism in a metal skirted dial 3″ in diam. Ratio, 5 to 1. Available in 2, 3, 4, 5 or 6 scale (see below) and fits ¼″ shaft. Specify scale or blank. Net Each..**$2.59**

N DIAL (**Fig. B**)—4″ dial with engine divided scale. Decimal vernier. Planetary drive has ratio of 5 to 1 and is contained within the body of the dial. 2, 3, 4, 5 or blank scale. Specify. Fits ¼″ scale. Net Each......................**$5.18**

AD DIAL (**Fig. B**)—Same as above, except with die stamped scale and pointer, rather than vernier. Blank only. Net Ea. **$3.45**

O DIAL (**Fig. C**)—3½″ diameter, scale 2, with HRK black bakelite knob, equipped with pointer. Fits ¼″ shafts. Net..**$1.15**

B DIAL (**Fig. E**)—"Velvet Vernier" dial with compact variable ratio 6 to 1 min., 20 to 1 maximum drive. Black bakelite case. Scale 1. Fits ¼″ shaft. Specify scale. Net Each.........................**$3.11**

BM DIAL (**Fig. F**)—Smaller version of B for use where space is limited. Fixed drive ratio. Scale, 1, 2 or 5, 3″ dia. Fits ¼″ shaft. Specify scale. Net Each..........**$2.42**

K DIAL (**Fig. G**)—Same as O except less knob, complete with ODD vernier drive, scale 2 only. Net Each............**$1.73**

DIAL SCALES

	Divisions	Rotation	Dir. for Increase
1	0–100–0	180°	Either
2	0–100	180°	Counter C. W.
3	100–0	180°	Clockwise
4	150–0	270°	Clockwise
5	200–0	360°	Clockwise
6	0–150	270°	Counter C. W.

R DIAL (**Fig. H**)—1⅝″ diameter scale calibrated 0-10 in 180° for increased reading with clockwise rotation. Black bakelite knob. Fits ¼″ shaft. Net Each **69c**

ODL LOCK (**Fig. I**)—A locking device which clamps the rim of O, K, L and M dials. Brass, nickel plated. Net.......**38c**

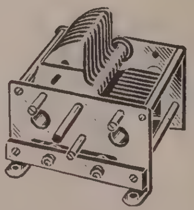
ODD VERNIER PINCH DRIVE (**Fig. K**)—For O, L or other plain dials. Net...**48c**

SB BUSHING (**Not Ill.**)—Nickel plated brass, ½″ diameter. Fits ¼″ shaft. Net Each.............................**21c**

AN VERNIER MECHANISM (**Not Ill.**)—Ratio 5 to 1. Has insulated output shaft coupling for ¼″ shafts. Drive shaft fits 3/16″ knob. Net Each.................**$2.07**

AVD VERNIER MECHANISM (**Not Ill.**)—Similar to AN. Output shaft not insulated. For commercial uses, many variations are available. Net Each.....**$1.90**

TRANSMITTER VARIABLES



TMC

TYPE TMC

Designed for use in power stages of transmitters where peak voltages do not exceed 3000 V. Frame is extremely rigid and arranged for mounting on panel, chassis or standoff insulators. The plates are aluminum with buffed edges. Steatite insulation. Air gap .077″. 3000 V. peak.

SINGLE STATOR

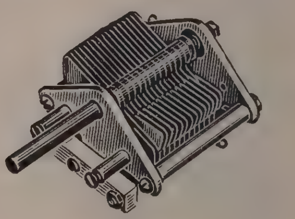
Nat. No.	Cap.*† Max.	Cap.*† Min.	Lgt. Ins.	Net Each
TMC-50	50	10	3	$4.14
TMC100	100	13	3½	4.89
TMC150	150	17	4⅝	6.04
TMC250	250	23	6	6.56
TMC300	300	25	6¾	7.02

DOUBLE STATOR

TMC 50D	50	9	4⅝	5.00
TMC100D	100	11	6¾	6.84
TMC200D	200	18.5	9¼	8.34

* per section. † in mmfd.

222-55A



TMS

TYPE TMS

Designed for transmitter use in low power stages. Compact, rigid, dependable. Provision for mounting either on panel, or on chassis, or on two stand-off insulators. Steatite insulation. Rated conservatively. Length 3″.

SINGLE STATOR

Nat. No.	Cap.*† Max.	Cap.*† Min.	Air Gap	Peak Volts	Net Each
TMS-100	100	9.5	.026	1000	$2.99
TMS-150	150	11	.026	1000	3.22
TMS-250	250	13.5	.026	1000	3.80
TMS-300	300	15	.026	1000	4.37
TMSA-35	35	8	.065	2000	4.49
TMSA-50	50	11	.065	2000	5.06

DOUBLE STATOR

TSM-50D	50	6	.026	1000	3 45
TSM-100D	100	7	.026	1000	3 68
TMS-125D	125	.....	.....	.....	3.89
TMSA-50D	50	10.5	.....	.....	5.06

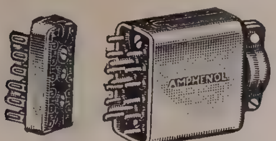
*per section. † in mmfd.

Connectors, Lugs, Jacks, Plugs

AMPHENOL CONNECTORS

RACK AND PANEL CONNECTORS

26 SERIES



11, 15 and 20 contact connectors for use on rack and panel mountings. All have eyelets inserted in the mounting holes for added strength, holes for wiring instead of the usual hooks on the male contacts, and interlocking barriers to prevent accidental shorting. All models can be supplied with or without a protective can and cable clamp as shown. Molded of mica-filled phenolic. Male contacts are brass, silver plated and molded into the insert. Female contacts are berylium copper, silver plated. **Voltage Rating:** 500 volts RMS, 60 cps at sea level.

SPECIFICATIONS

Amphenol No. 26-	Description	Contacts		Spacing
		No. 16	No. 20	
804,809	Male	2	9	.864
805,808	Female	2	9	.864
151,152	Male	3	12	1.188
150,153	Female	3	12	1.188
806,811	Male	4	16	1.620
807,810	Female	4	16	1.620

PRICES

Amphenol No.	No. of Contacts	Mounting Screw Size	Net Each
26-804*	11	No. 4	$1.07
26-809	11	No. 4	1.68
26-805*	11	No. 4	.84
26-808	11	No. 4	1.44
26-151*	15	No. 6	1.29
26-152	15	No. 6	1.95
26-150*	15	No. 6	.89
26-153	15	No. 6	1.55
26-806*	20	No. 4	1.83
26-811	20	No. 4	2.61
26-807	20	No. 4	1.50
26-810	20	No. 4	2.28

*Insert only, without can and clamp.

BLUE RIBBON SERIES CONNECTORS

Provides quick disconnect for sub-assemblies with low insertion and withdrawal force requirements. Plug easily when visual alignment is impossible. Almost any desired combination of circuit rerouting possible with single connectors or multiple connectors mounted in a single frame. No contact pins to break or bend. Contacts supported for their full length on rugged, high quality dielectric. Receptacle spring contacts are below-surface mounted. Wiping action assures positive contact at all times. Contact terminals accommodate up to No. 16 stranded conductors. Contacts have heavy silver base plating with gold surface finish. Positive polarization, protective barriers insure proper spacing. **Voltage Rating:** 5 amps, 500VDC at sea level; 150VDC at 60,000 feet.

8 CONTACTS

Suited for use with small sub-assemblies.
Model 26-183—Receptacle. Net.. **$1.51**
Model 26-182—Plug. Net Each.. **.82**

16 CONTACTS

For sub-assembly circuits. May be paralleled for heavy current.
Model 26-190-16—Receptacle. Net **$2.24**
Model 26-159-16—Plug. Net Each **1.80**

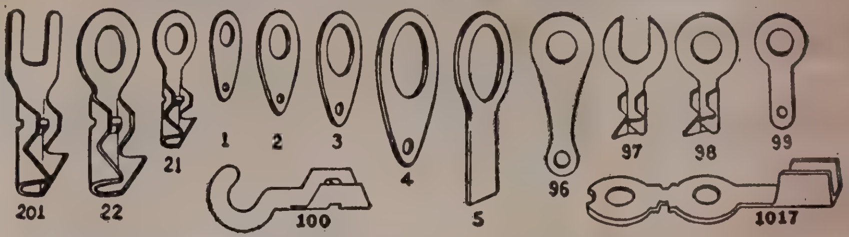
24 CONTACTS

Accommodates all but most complex rack and panel units. Multiple mounting in 1 frame provides low insertion and withdrawal force connectors.
Model 26-190-24—Receptacle. Net **$2.71**
Model 26-159-24—Plug. Net Each **2.18**

32 CONTACTS

Several can be utilized in a special multiple mounting.
Model 26-190-32—Receptacle. Net **$3.20**
Model 26-159-32—Plug. Net Each **2.56**

BIRNBACH LUGS, JACKS AND PLUGS



TINNED TERMINAL LUGS

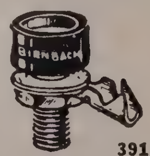
Birn. No.	For Screw	Lgth., In.	Net Each, Lots of		
			50	100	1000
1	6	17/32	36c	$0.72	$ 5.85
2	10	5/8	36c	.72	5.85
3	1/4	5/8	36c	.72	5.85
4	3/8	7/8	......	......	22.50
5	1/2	1 3/16	......	......	30.00
21	10	1 13/16	36c*	.90	7.50
22	1/4	1 1/8	36c†	1.92	17.70

*Per lot of 35. †Per lot of 15.

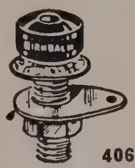
Birn. No.	For Screw	Lgth., In.	Net Each, Lots of		
			*50	100	1000
201	8	1 13/16	36c	$0.84	7.50
96	6-8-10	7/8	36c	.69	6.45
97	8	5/8	36c	.72	6.45
98	6-8-10	11/16	36c	.90	7.50
99	4-6-8	11/16	36c	.84	7.50
100	10	7/8	36c	1.35	12.00
1017	10	13/16	36c	2.31	21.00

***201**, **98** and **99**, lot of 35; **96**, **97**, lot of 40; **100**, lot of 20; **1017**, lot of 10.

INSULATED BANANA JACKS



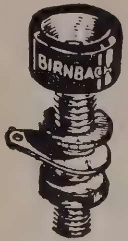
391



406

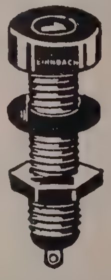
1/2″ diameter insulated head admits all exposed metal of plug when inserted. Mounts in a 5/16″ diameter hole on a panel up to 3/8″ thick. No. 406 jack has 7/16″ diameter insulated top. Fits into 5/16″ hole and takes up to a 3/8″ panel. Both supplied with insulating shoulder washer, nut and lug.
No. 391—Red, black, yellow or green. Net Each.................. **13c**
No. 406—Red, black, yellow, blue or green. Net Each.................. **12c**

INSULATED GIANT JACKS



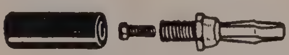
No metal exposed on panel. 3/8-24 nickel plated sleeve with 10-32 threaded hole. With lock and insulating washers, nut and lug. Red or black.
No. 393—Lug under head. Net Each..... **39c**
No. 393A—Lug at end. Net Each... **39c**

INSULATED COMBINATION JACK



Fits all standard plugs of phone tip or banana type. 1/4″ hole mounting in panels up to 1/2″ thick. Overall length, 1 3/8″. Complete with insulating shoulder, washer and nut. Insulated head in black, green, red or yellow.
No. 333—Net Each... **15c**

INSULATED BANANA PLUG

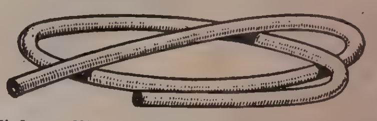


Has the Scrulok solderless connection and non-collapsible special alloy springs assembled on a pin preventing collapse of the plug. Handle is 3/8″ wide x 1″ long phenolic resin. Red, yellow, blue, green, black
No. 404—Net Each.............. **18c**

NO. 404B SPRING BANANA PLUG

Same construction as above, except with small side screw for wire.
No. 404B—Net Each.............. **24c**

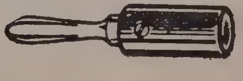
VARNISHED TUBING



High quality rayon braid with heavy coatings of varnish. Inside also coated. Impervious to oil, acid, water. Dielectric strength, 5000v. ASTM and VTA specs met.

Birn. No.	B&S Gauge	Approx. ID	Length, Inches	Net Each
291	20	.034	30	$0.11
293	18	.042	30	.11
294	16	.053	30	.11
295	14	.066	30	.11
300	12	.085	30	.11
307	10	.106	30	.18
301	8	.133	30	.21
302	6	.166	30	.21
297	3/16	.208	30	.27
298	1/4	.263	30	.30
303	5/16	.3125	30	.39
304	3/8	.375	30	.54
299	1/2	.500	30	.87
296	5/8	.625	30	1.05

BANANA PLUG



Solid brass nickel plated, with end slotted. Phenolic handle 1″ long x 3/8″ diameter held on by screw securing wire to plug. Red, black, yellow, green and blue.
No. 604—Net Each.............. **15c**

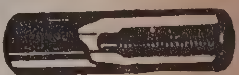
INSULATED BANANA PLUG

Handle, 1 7/8″ x 1/2″ diameter. Used on therapeutic apparatus and test equipment. Overall length, 2 5/8″. Red or black.
No. 341—Net Each.............. **36c**

INSULATED GIANT PLUG

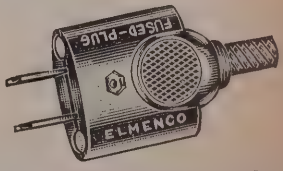
No exposed edges. Connection made by soldering into hole at end of threaded shank. 1 7/8″ handle, 5/8″ diameter. Overall length, 3″. Red or black.
No. 392—Net Each.............. **42c**

HANDLE JACK



A banana jack inside an insulated sleeve. Connection made by soldering to end of jack. Phenolic resin handle, 3/8″ diameter x 1 1/4″ long. Red, black, yellow and green.
No. 605—Net Each.............. **21c**

EL-MENCO FUSED PLUG

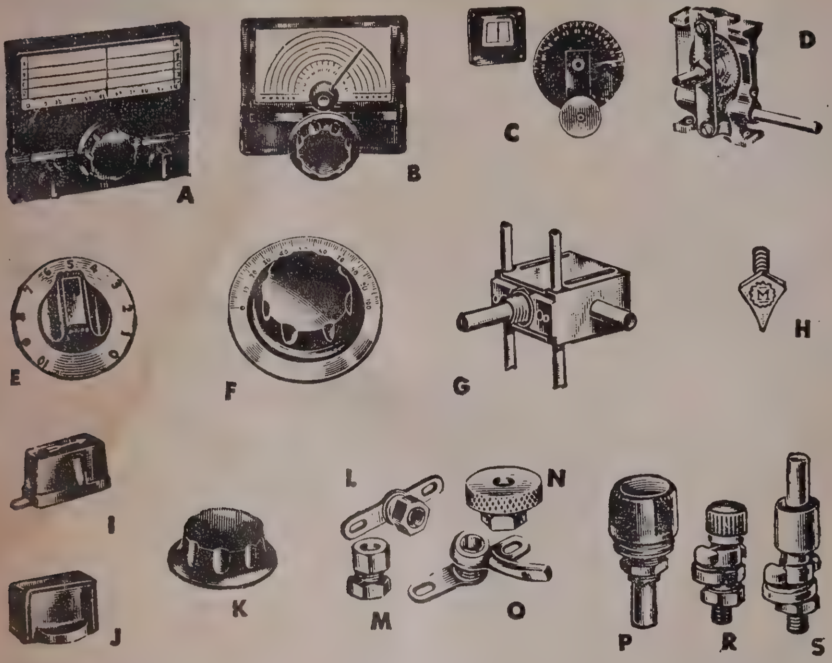


Attaches to cord just as any standard plug Finger grips make this plug easier to handle. Contains two small fuses which provide complete protection against damage to appliance and to main line. Blown fuses easily removable from bottom of plug. Replacements available up to 10 amps wherever electrical supplies are sold. Uses Littelfuse Types 3AG and 3AB fuses. **Polarized blade** can be supplied instead of regular blade upon request—at no extra cost. Supplied without fuses. U/L Approved.
Net Each.............. **26c**

731X-55A

Millen Components

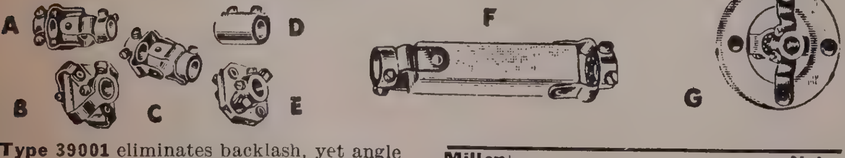
MILLEN DIALS, DRIVES, SCALES, KNOBS



Millen No.	Description	Figure	Net Each
10000	Worm Drive Unit, either 48/1 or 16/1 (Specify)	D	$7.50
10001	Drum Meter Dial. May be mounted in round panel hole in same manner as meter. Made to match in appearance the popular two and three-eighths inch square case meters. Drum diameter approx. 2". May be used with either drum or disc dial	....	2.07
10002	Instrument Bar Knob, Brass Insert	J	.51
10003	Instrument Bar Knob, Navy style, brass insert	I	.51
10006	Large Tuning Knob, 2¾" dia. with brass insert	K	.56
10007	Nickel Silver Inst. Dial, 1⅝" dia., 10 divisions over 180° or 280°, for CW or CCW rotation (Specify)	E	.69
10008	Nickel Silver Inst. Dial, 3½" dia., 0-100	F	1.14
10009	Nickel Silver Inst. Dial, 2¾" dia., 0-100	F	.96
10011	Disc "Meter" Dial 0-100	C	2.55
10012	Right Angle Gear Drive, 1/1 ratio	G	4.20
10018	Medium Tuning Knob, 1¾" dia., brass insert	K	.45
10021	Index for use with Dials	H	.18
10035	Panel Dial, combination. Holes may be readily drilled to add two small controls, as illustrated. Escutcheon removes without disturbing dial mechanism, for easy calibration. Drive ratio 8/1. Escutcheon size, 8¼" x 6½"	A	6.75
10038	Right Angle Anti-Backlash Dial and Drive Unit. Spring loaded split gear unit, ratio 50/1	....	7.26
10039	Midget Panel Dial	B	3.00
10050	Dial Lock, Captive Head, front of panel mtg	R	.51
10053	Dial Lock, sub panel mounting	S	.56
10060	Shaft Lock, with mounting strap	L	.42
10061	Shaft Lock, mounting nut for potentiometers, etc	M	.42
10062	Shaft Lock, with knurled control knob	N	.51
10063	Shaft Lock, with lever control	O	.59
10065	Vernier Drive Unit	P	**

**State size and quantity desired when inquiring for price.

FLEXIBLE COUPLINGS

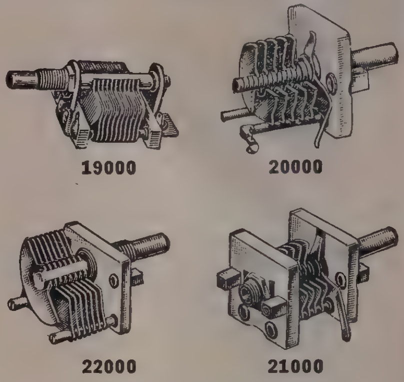


Type 39001 eliminates backlash, yet angle drives with as much as 45° may be obtained. Isolantite insulation. **No. 39005** is non-insulated Universal joint for large angle drives requiring relatively high torque. **No. 39006** for use where shafts have end motion or end wobble. Permits small angle drives. **No. 39002** is conventional type. **No. 39008** is same, with hubs outside. **No. 39009** is large diam. isolantite ring type coupling. **No. 39011** is a high voltage version of 39001. All couplings are standard for ¼" shaft and have slotted head hardened cup point set screws.

Millen No.	Description (Fig.)	Net Each
39001	Flexible coupling (A)	$0.48
39002	Conventional cplg. (B)	.48
39003	Sol. Brass NP cplg. (D)	.24
39005	Univ., non-insul. (C)	.48
39004	39005, hubs "in" (C)	.48
39006	Slide action, steatite (E)	.48
39007	Slide action, bakelite (E)	**
39008	39002 hubs, "out" (C)	.69
39009	Hi-V. ring type (G)	.75
39011	Hi-V. flexible type (F)	1.35

** State size and quantity desired when inquiring for price.

SMALL VARIABLE AIR CAPACITORS



Small variable air dielectric receiving type capacitors employing brass plates with solder type construction heavily plated. Highest grade wax impregnated steatite end plates. Standard plain bearings.

19000 SERIES

Millen No.	Description	Cap. μμfd	Net Each
19025	Open Frame Midgets, Single Spaced	25	$2.97
19035		35	3.00
19050		50	3.09
19075		75	3.24
19100		100	3.36
19140		140	3.63
19200		200	3.90
19325		325	3.54
19935	Open Frame Midgets, Double Spaced	35	3.54
19950		50	3.54

2000 SERIES

Millen No.	Description	Cap. μμfd	Net Each
20015	Steatite Ultra Midgets, Single Spaced	15	$1.77
20025		25	1.86
20035		35	1.41
20050		50	2.04
20075		75	2.25
20100		100	2.43
20140		140	......
20920	As above, but Double Spaced	20	2.04
20935		35	2.34

21000 SERIES

Millen No.	Description	Cap. μμfd	Net Each
21050	Steatite Ultra Midgets, Single Spaced	50	$3.75
21100		100	4.14
21140		140	4.44
21935	Double Spaced	35	4.08

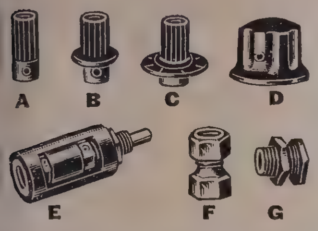
22000 SERIES

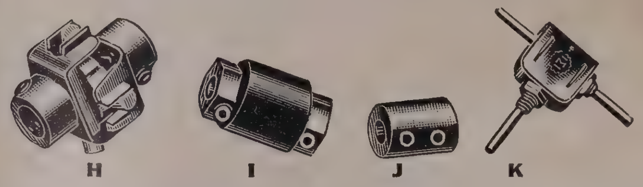
Millen No.	Description	Cap. μμfd	Net Each
22035	Steatite Midgets, Single Spaced	35	$2.79
22050		50	3.00
22075		75	3.12
22100		100	3.19
22140		140	3.72
22915	Same as above but Single Spaced	15	2.73
22935		35	3.00

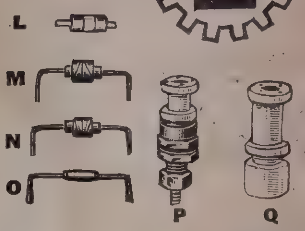
WE CAN SUPPLY THE COMPLETE LINE OF MILLEN EQUIPMENT AND COMPONENTS. DON'T HESITATE TO INQUIRE ABOUT UNLISTED ITEMS.

Millen Electronic Components

MINIATURIZED COMPONENTS





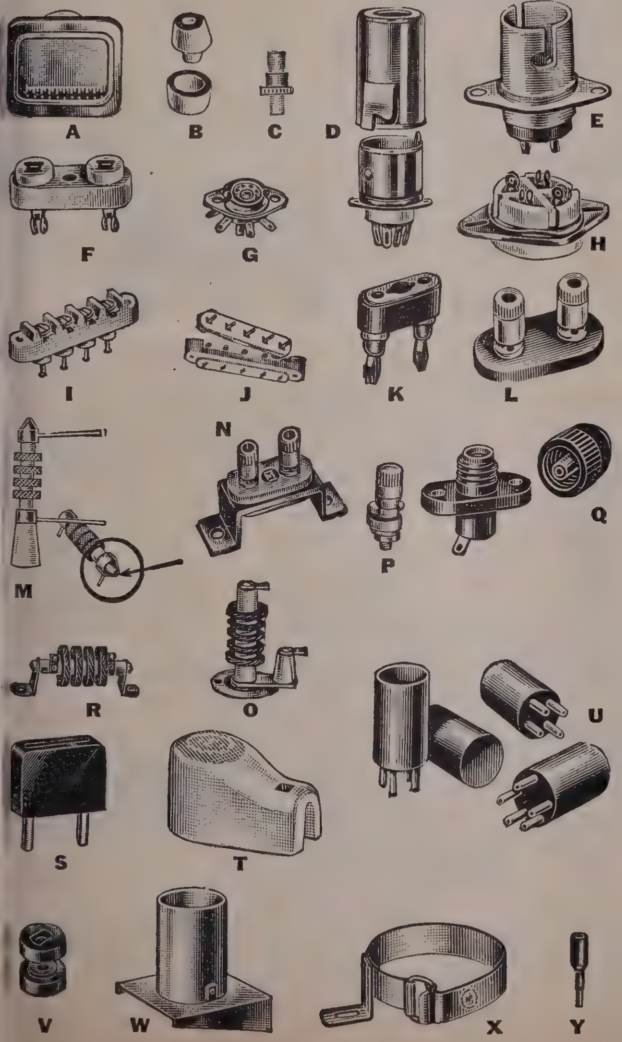


Developed for use in Millen equipment such as the 90901 Oscilloscope, these components are now available for separate sale. Many of these parts are similar in most details except size with their equivalents in Millen standard component parts, and in certain devices where complete miniaturization is not paramount, a combination of standard and miniature components may possibly be used to advantage. Additional miniature and subminiature components are being designed and will be announced.

Millen No.	Fig.	Description	Net Each
A006	D	Matches standard knobs in style. Black plastic; brass insert; for ⅛″ shaft. Overall height ½″. Diameter ¾″	$0.42
A007	C	¼″ diameter black plastic knob with ⅝″ plastic dial with 5 index lines. Brass insert for ⅛″ shaft. Overall height ⅝″; Screwdriver slot in top	.42
A012	K	Right angle drive. ⅛″ diameter shafts. Single hole mounting bushing ¼″-32 dia	3.90
A018	B	Similar to A018 except with ⅜″ skirt	.39
A019	A	Similar to A007 but without flange	.36
A061	F	Shaft lock for ⅛″ shaft. ¼″-32 bushing. Nickel-plated brass	.39
A066	G	Shaft bearing for ⅛″ shafts. Nickel-plated brass. Fits 17/64″ hole	.36

Millen No.	Fig.	Description	Net Each
E001	L	Steatite standoff or tie-point integral mounting eyelet. .205″ overall diameter. Box of five	.90
J300-250	O	Iron core RF choke, 25 µh	.42
J300-50	O	Iron core RF choke, 50 µh	.42
J300-100	O	Iron core RF choke, 100 µh	.42
J300-250	O	Iron core RF choke, 250 µh	.42
J300-500	O	Iron core RF choke, 500 µh	.42
J300-1000	N	Iron core RF choke, 1000 µh	.42
J300-2500	M	Iron core RF choke, 2500 µh	.42
M003	J	Solid coupling for ⅛″ diameter shaft. Nickel-plated brass	.30
M006	H	Universal joint style flexible coupling. Spring finger; steatite insulation; nickel-plated brass for ⅛″ diameter shafts	.75
M008	I	Insulated coupling with nickel-plated brass inserts or ⅛″ diameter shafts	.48
M023	E	Insulated shaft extension for mounting subminiature pot with ⅛″ shaft and ¼″-32 bushing	1.35
69043	Q	Steatite coil form; adjustable core. Top tuned. Tapped 4-40 hole for mounting. Winding space ¼″ diameter x 13/32″ lgth.	.84
69044	P	Steatite coil form, adjustable brass core. Bottom tuned. Mounts by No. 1D-32 brass base. Winding space .187″ diameter x 3/16″ length	.84

STANDARD COMPONENTS

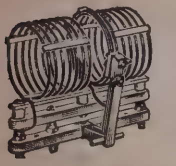


Millen No.	Fig.	Description	Net Each
80075	A	5″ CRT bezel, satin black plastic	$8.40
80073	A	3″ CRT bezel, satin black plastic	4.35
80072	A	2″ CRT bezel, satin black plastic	1.44
80071	A	1″ CRT bezel, satin black plastic	1.44
32103	B	Steatite bushing for ¾″ hole	.51
32150	C	Isol. thru-bushing for ⅜″ hole. Box, 5	.30
33307	D	Socket, Midget 9000 series with shield	.75
33991	E	Dual contact bayonet socket for 991	.51
33991	E	Dual contact bayonet socket for 991	.51
33002	F	Xtal socket, ¾″ spacing, .125 pins	.36
33102	F	Xtal socket, .487″ spacing, .095 pins	.36
33202	F	Xtal socket, ½″ spacing, .125 pins	.36
33302	..	Xtal socket for CR-7, ½″ spacing, .05 pins	.24
33407	G	Socket, midget 9000 series, less shield	.51
33004	H	Tube socket, 4-prong	.36
33005	H	Tube socket, 5-prong	.36
33006	H	Tube socket, 6-prong	.36
33007	H	Tube socket, 7-prong	.39
33008	H	Tube socket, 8-prong	.36
37302	I	Two terminal, steatite	.69
37303	I	Three terminal, steatite	.78
37304	I	Four terminal, steatite	.90
37305	I	Five terminal, steatite	1.05
37306	I	Six terminal, steatite	1.14
40305	J	Coil form plug, intermediate size	.69
41305	J	Coil form socket, intermediate size	.84
37212	K	Black, red or brown plug. Mica-filled	.78
37201	L	Red or brown steatite discs, pair	.24
37202	L	Black steatite plates, pair	.33
37222	L	Binding posts, nickel-plated, pair	.45
37211	N	Bracket, nickel-plated brass	.18
34154	O	Choke, air core, 1 mh, 600 ma, amateur	1.95
34100	M	RF choke, 2.5 mh, 250 ma	.48
34140	R	Universal air core transmitting choke	1.14
10050	P	Dial lock, single-hole mounted	.51
37001	Q	Black bakelite safety terminal	.45
37001	Q	Red bakelite safety terminal	.48
37412	S	Transmission line plug for 300 ohm line	.24
36001	T	Ceramic plate or grid cap, 9/16″	.24
36002	T	Ceramic plate or grid cap, ⅜″	.24
36004	T	Ceramic plate or grid cap, ¼″	.24
45000	U	1″ mica base coil form, no prongs	.39
45004	U	1″ mica base coil form, 4 prongs	.51
45005	U	1″ mica base coil form, 5 prongs	.51
37201	V	Black or brown bakelite binding post plates	.24
80009	W	Shield, shelf and socket for 807 tube	1.05
33087	X	Tube base clamp for 1⅜″ base tubes	.36
39023	Y	High voltage insulated shaft extension, non-locking	1.35
39024	Y	Same as 39023, locking type	1.65

331X-54A

E. F. Johnson Components

SWINGING LINK INDUCTORS



Swinging link inductors for amateur bands 160 thru 6 meters; 150, 500 and 1000 watt sizes. Two inductance values for each band permit choice of appropriate L/C ratio dictated by amplifier plate voltage and plate current. Polystyrene insulation, steatite bases and heavy wire sizes insure highest efficiency. HCS-Inductors match high voltage, low current tubes. LCS-Inductors match low voltage, high current tubes. Complete assembly includes Inductors for bands desired, one Jack Bar, one Link Arm Assembly and one or more Plug-in Links required for matching to line or antenna coupler.

1,000 WATTS

Johnson No.	Type No.	Wire Size	Cap.* mmf.	Height Inches	Width Inches	Net Each
238-106	1000HCS160	10	99	5 11/16	4 13/32	$8.25
238-107	1000LCS160	10	140	5 11/16	4 13/32	8.25
238-101	1000HCS80	10	46	5	3 23/32	7.35
238-102	1000LCS80	10	73	5	3 23/32	7.35
238-103	1000HCS40	10	24	5	3 23/32	6.65
238-104	1000LCS40	8	55	5	3¾	6.65
238-105	1000HCS20	8	19	4⅞	3¾	6.10
238-111	1000LCS20	.250″	26	5⅛	4	6.10
238-112	1000H/LCS14	.250″	19	4⅞	3½	5.70
238-113	1000H/LCS10	.250″	18	4⅞	3½	5.40

500 WATTS

Johnson No.	Type No.	Wire Size	Cap.* mmf.	Height Inches	Width Inches	Net Each
238-125	500HCS160	14	100	4 7/32	3⅛	$4.25
238-126	500LCS160	14	148	4 7/32	3⅛	4.25
238-121	500HCS80	14	45	3 23/32	2⅝	3.80
238-122	500LCS80	12	76	3¾	2 21/32	3.80
238-123	500HCS40	12	27	3¾	2 21/32	3.45
238-124	500LCS40	10	50	3 25/32	2 23/32	3.45
238-131	500HCS20	6	25	3 13/16	2 13/16	2 95
238-132	500LCS20	6	37	3 13/16	2 13/16	2.95
238-133	500H/LCS14	6	19	3 11/16	2 9/16	2.50
238-134	500H/LCS10	6	19	3 9/16	2 5/16	2.30
238-135	500H/LCS6	6	18	3 9/16	2 5/16	2.30

150 WATTS

Johnson No.	Type No.	Wire Size	Cap.* mmf.	Height Inches	Width Inches	Net Each
238-147	150HCS160	18	102	4 3/16	3 1/16	$3.65
238-148	150LCS160	16	151	4 7/32	3 3/32	3.65
238-141	150HCS80	16	51	4 7/32	2 19/32	3.30
238-142	150LCS80	16	68	4 7/32	2 19/32	3.30
238-143	150HCS40	14	28	3 23/32	2⅝	2.95
238-144	150LCS40	12	57	3¾	2 21/32	2.95
238-145	150HCS20	12	21	3½	2 13/32	2.65
238-146	150LCS20	12	32	3½	2 13/32	2.65
238-151	150H/LCS14	8	19	3 21/32	2½	2.30
238-152	150H/LCS10	8	19	3 21/32	2½	2.15
238-153	150H/LCS6	8	16	3 13/32	2	2.15

*Total circuit capacity required to effect resonance at low frequency end of band.
To determine split-stator capacitor required, subtract tube output and wiring capacity (usually 5 to 20 mmf.) from total capacity in chart; then double the resulting value for capacity per section needed.

PLUG-IN SWINGING LINKS

Select the link to match your line, coupler or output filter for optimum power transfer.

Johnson No.	Type No.	No. Turns	Net Each	Johnson No.	Type No.	No. Turns	Net Each
238-181	150/500SL12	12	$2.00	238-191	1000SL10	10	$2.10
239-182	150/500SL5	5	1.25	238-192	1000SL5	5	1.60
238-183	150/500SL2	2	1.10	238-193	1000SL2	2	1.20

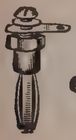
SWINGING LINK ARM ASSEMBLIES

238-179 **150/500SLA**—Arm assembly for 150/500 watt inductors..............**$1.25**
238-180 **1000SLA**—Arm assembly for 1000 watt inductors.................... **1.55**

JACK BAR ASSEMBLIES

238-171 **150JSB**—150 watt, 3¾″ x 9/16″ x ⅜″.................................**$1.00**
238-172 **500JBS**—500 watt, 5¾″ x ⅝″ x ⅜″................................. **1.30**
238-173 **1000JBS**—1000 watt. 7½″ x ⅞″ x ½″................................ **2.00**

BANANA PLUGS AND JACKS



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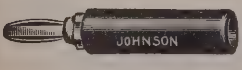

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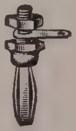

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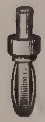

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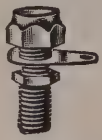


E

Highest quality jacks and plugs made with nickel plated brass with nickel silver springs and accurate threads. 770, 771 and 772 are heavy duty types having .300″ diameter springs, fit jack 760. 754 has beryllium copper spring and is designed for riveting.

PLUGS

Johnson No.	Fig.	Length	Thread	Net Each
108-750	C	1⅛″	6-32	12c
108-750-2	C	1½″	6-32	13c
108-752-1*	B	2⅛″	....	31c
108-752-2#	B	2⅛″	....	31c
108-753	A	15/16″	6-32	12c
108-754	D	13/16″	....	9c
108-770	C	1 25/32″	¼-28	27c
108-771	A	1⅛″	10-32	30c
108-772-1*	B	2 25/32″	....	43c
108-772-2#	B	2 25/32″	....	43c

*Black plastic handle. #Red plastic handle

NYLON INSULATED PLUGS (NOT ILL.)

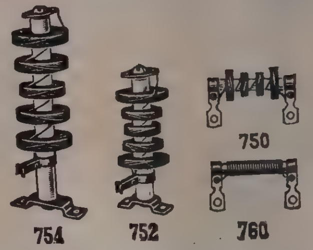
Compact high voltage plug with nylon insulation. Easy solderless connections for up to 16-ga. wire. Nylon insulating sleeve retains strength and low loss characteristics over wide temperature range. Body and pin 1-piece nickel plated brass with nickel silver springs. ⅞″ sleeve, 11/16″ tip.
Johnson No. 108-301—White.
108-302—Red. **108-303**—Black.
108-304—Dark Green. **108-305**—Yellow.

Net Each.........................**19c**

JACKS

Johnson No.	Fig.	Fits	Thread	Net Ea.
108-740	E	750-2-3-4	¼-28	11c
108-745-1*	E	750-2-3-4	¼-28	22c
108-745-2*	E	750-2-3-4	¼-28	22c
108-760	E	770-1-2	⅜-24	29c

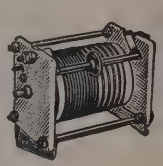
RADIO FREQUENCY CHOKES



Have high reactance over the range for which they are designed. Coils are of enameled silk-covered wire impregnated with high grade RF lacquer and wound on Steatite cores. Current ratings may be increased for intermittent use.

Johnson No.	Frequency	Induct. (1 mc)	Ma.	Net Each
102-750	1.7-30mc	.83mh	150	$1.21
102-752	1.7-30mc	1.0mh	500	1.95
102-754	1.7-30mc	1.9mh	750	2.70
101-760	UHF	6.8mh	250	.52

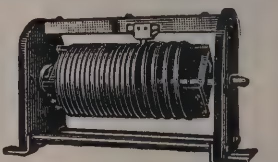
ROTARY INDUCTOR



Efficient, all steatite insulated inductors for amateur transmitters for low power commercial equipment. Variable pitch, tinned copper wire windings on grooved steatite forms. ¼″ shafts extend ½″ on both ends. Length dimensions below is over mounting feet. Width of inductors is 2½″, height is 2 31/32″. Mountings are 3 15/16″, 5 15/16″ and 6 23/32″ respectively. Will handle up to 3 amps.

Johnson Number	Induct. μh	Lgth. In.	Wire Ga.	Net Each
229-201	10	4⅝	14	$ 8.85
229-202	15	5 29/32	12	9.75
229-203	25	6 23/32	12	11.50

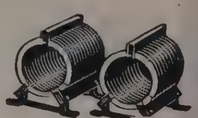
NEW HIGH POWER VARIABLE INDUCTORS



Heavy duty glass bonded mica insulated inductors for amateur and commercial use. Easily handles over a KW of modulated RF energy to 30 mc. Winding ¾″ x ⅛″ edgewise copper. Positive spring loaded beryllium copper contact moves on slide bar as coil rotates. Silver plated winding contact and slide bar. Variable pitch winding provides wide frequency band coverage and increases efficiency at high frequency range. Height, 6½″; width, 4″.

Johnson Number	Induct. μh	Mounting	Net Each
226-1	22.5	3″ x 12¾″	$62.70
226-3	13.5	3″ x 10¾″	58.30
226-5	8.0	3″ x 9¼″	49.20

EDGEWISE WOUND "HI-Q" INDUCTORS

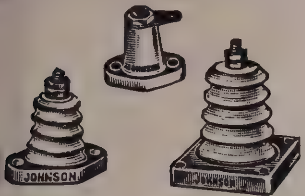


Edgewise wound, ¼″ copper strip, cadmium plated, glass bonded mica supporting bars. Widely used commercially, they will safely handle more than 1000 watts in continuous service. Write for information on other types for industrial and broadcast applications.

Johnson No.	Winding L x ID	Microhenries	Net Each
232-610	7 13/16″ x 2½″	31	$ 9.80
232-620	8 15/16″ x 4″	84	12.65
232-622	6 7/16″ x 3¼″	41	9.80
232-624	6″ x 3¼″	20	6.95
232-626	4¾″ x 2½″	10	6.40

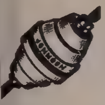
E. F. Johnson Components

STAND-OFF INSULATORS



The stand-off insulators feature heavy, breakage-resistant bases, and adequate glaze grooves around mounting screw hole. **Nos. 135-65, 135-66, 135-67, 135-68** have unbreakable etched aluminum bases. Those models which have numbers ending in the suffix "J" are Jack-Type insulators.

Johnson No.	Body Hgt.	Net Each
135-20	1 9/16"	$0.17
135-20-2	1 9/16"	.22
135-22	1"	.14
135-22-2	1"	.18
135-24	5/8"	.11
135-60	4½"	.75
135-62	2¾"	.40
135-65	1⅜"	.23
135-65-2	1⅜"	.32
135-66	2¾"	.60
135-66-2	2¾"	.82
135-67	4½"	.78
135-67-2	4½"	1.00
135-68	2"	.38
135-68-2	2"	.46



LEAD-IN BUSHINGS

Very strong. Long leakage path. Nos. 135-53, 135-54 single porcelain units. 135-50, 135-55 steatite with special interlocking feature which permits mounting on thin panels without extra spacers.

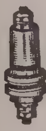
John. No.	Top Hgt.	Dia.	Pan. Hole	Net Ea.
135-50	½"	¾"	½"	27c
135-51	13/16"	1¼"	⅞"	44c
135-52	1⅛"	1¾"	1¼"	65c
135-53	1¾"	2½"	1⅞"	29c
135-54	4"	3½"	2¾"	68c
135-55	¼"	¾"	½"	25c

INSULATORS AND SUPPLIES

FEED-THRU BOWL ASSEMBLIES

Bowls, electrical glass, 6 15/16" maximum diameter, 4⅜" high. Steel mounting flange 7¾" diameter. Stud threaded ½"-13. Cork gaskets and spun aluminum corona shields included in fittings. 135-15-1 consists of single bowl with fittings, 10¼" stud. 135-15-3 two bowls and fittings with 16" stud for walls up to 4". 135-15-7 with 24" stud for walls up to 12". Can also be furnished with special hollow studs.

Johnson No.	Description	Net Each
135-15-1	One bowl and fittings..................	$13.55
135-15-3	Two bowls and fittings.................	23.65
135-15-7	Two bowls and fittings.................	24.20
135-15-11	Glass bowl only........................	7.35

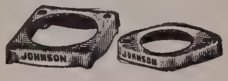


THRU-PANEL INSULATORS

Flat mounting surfaces with cushion washers. Grooved surfaces to increase leakage path. White porcelain.

Johnson No.	Top Hgt.	Panel Hole	Net Each
135-40	1¼"	½"	$0.28
135-40-2	1¼"	½"	.36
135-42	⅞"	7/16"	.27
135-42-2	⅞"	7/16"	.35
135-44	⅝"	5/16"	.20
135-45	1⅜"	½"	.35
135-45-2	1⅜"	½"	.43
135-46	2¾"	¾"	.95
135-46-2	2¾"	¾"	1.17
135-47	4½"	1"	1.35
135-47-2	4½"	1"	1.51
135-48	2"	⅝"	.53
135-48-2	2"	⅝"	.66

ALUMINUM MOUNTING FLANGES



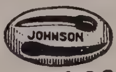
Stamped aluminum for lead-in bushings **No. 135-53 and 135-54.**

Johnson No.	For Bushing	Net Each
135-90	135-53	28c
135-91	135-54	61c

COMMERCIAL ANTENNA INSULATORS

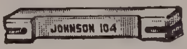
Wet process porcelain 1½" in diameter. End fittings are of non-corrosive aluminum alloy. Long leakage paths, low capacity and freedom from moisture absorption results in exceptional efficiency. Breaking strength 5,000 lbs.

Johnson No.	Length		Net Each
	Net	Overall	
136-151	8"	15½"	$7.70
136-152	12"	19½	8.25
136-153	20"	25½"	13.25



Johnson No. 136-32—Airplane compression type strain insulator of porcelain. 2" long Net Each.................. **10c**

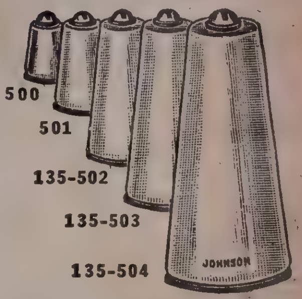
ANTENNA INSULATORS



Made of genuine wet process porcelain, with smooth white glazing. Long leakage path, low capacity and freedom from moisture absorption result in exceptional efficiency. **No. 136-104** is a dry process, 4" antenna insulator, ⅝" square. Others 1" round.

Johnson No.	Break Strength	Lgth.	Net Each
136-104	400 lbs.	4"	$0.17
136-107	800 lbs.	7"	.83
136-112	800 lbs.	12"	1.05

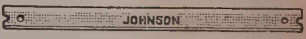
CONE INSULATORS



For hi-frequency insulation. Low moisture absorption. Threads tapped directly into ceramic. Complete with machine screws, washers.

John. No.	Height	Net
135-500	⅝"	22c
135-501	1"	27c
135-502	1½"	47c
135-503	2"	54c
135-504	3"	94c

FEEDER INSULATORS



Feeder spreaders of low absorbtion porcelain, silicone impregnated. No. 136-122 has notches for 1½" line. ⅜" x ½" cross section.

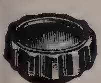
No. 136-122—
Length 2". Net Each.... **13c**
No. 136-124—
Length 4". Net Each.... **19c**
No. 136-126—
Length 6". Net Each.... **24c**

THREADED BRASS ROD

Intended primarily for use with lead-in bushings 135-53 and 135-54. Accurately cut threads, heavy nickel plating, complete with 4 washers and 4 nuts, ¼" in diameter, ¼-20 thread.

Johnson No.	Length	Net Each
115-240	8"	44c
115-241	10"	55c
115-242	15"	77c

KNOBS AND DIALS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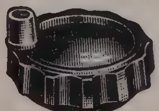
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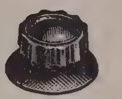
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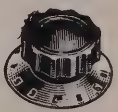
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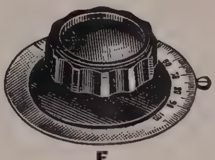
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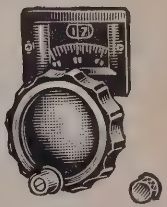
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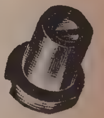

G

Distinctive line of matching knobs and dials derived from new basic design. Knobs have twelve flutes. Accurately centered brass inserts for ¼" shafts.

KNOBS

Johnson No.	Illus.	Description	Net Ea.
116-220	A	Knob, 1⅛" dia., black phenolic	$0.29
116-260	A	Knob, 1⅝" dia., black phenolic	.39
116-280	A	Knob, 2⅜" dia., black phenolic	.59

SPINNER KNOBS

For multi-turn devices such as variable inductors, potentiometers.

116-226	B	Spinner knob 1⅛" black phenolic	$0.56
116-266	B	Spinner knob 1⅝" black phenolic	.67
116-286	B	Spinner knob 2⅜" black phenolic	.82

BLACK PHENOLIC SKIRTED KNOBS

Johnson No.	Illus.	Description	Net Ea.
116-221	C	Knob, 1⅛" dia. with 1½" skirt	$0.59
116-261	C	Knob, 1⅜" dia. with 2 1/16" skirt	.73
116-281	C	Knob, 2⅜" dia. with 3" skirt	.87

VERNIER DIALS

Not illustrated. Satin chrome scale. Friction vernier drive.

Johnson No.	Description	Ratio	Net Ea.
116-265	Dial, 2¾" scale 0-100 over 180°	3-1	$3.00
116-285	Dial, 4" scale 0-100 over 180°	5-1	3.80

DIALS

Johnson No.	Illus.	Description	Net Ea.
116-222-1	D	100-0 over 180°	$0.56
116-222-2	D	10-0 over 270°	.56
116-222-3	D	7-1 over 180°	.56
116-222-4	D	ON-OFF over 60°	.56
116-222-5	D	Line Indication	.56
116-262	E	2¾"; 0-100 over 180°	1.60
116-282	E	4"; 0-100 over 180°	2.40

COUNTER DIAL

A positively calibrated drive for rotary variable inductors and other multi-turn devices. Counter records up to 99 turns. Vernier dial calibrated 100–0 over 360 degrees, making possible accurate return to any predetermined setting. Built-in dial lock, "spinner" knob and attractive black phenolic escutcheon. Furnished with mounting template for easy installation.

116-208-1 (Fig. F)—Counter dial with dial lock, escutcheon and 2⅜" spinner knob. Net Each........................ **$11.10**
116-208-4—Same as above without dial lock. Net Each.. **$9.80**

INSTRUMENT KNOBS

Black phenolic knob may be finger operated or mounted so as to project through panel and screwdriver actuated. Length 13/16", skirt dia. ¾", main body dia. ½". Equipped with set screw.

116-214-1	G	Knob for ¼" shaft	$0.33
116-214-2	G	Knob for 5/16" shaft	.33

TV, Radio, Test Equipment Knobs

RADIO KNOBS BY G-C

G-C SPRING SHAFT KNOB

Spring type. 15/16″ diameter. Fits 1/4″ flat shaft.

No. 1151. Walnut. Net Each.........9c
No. 1152. Ivory. Net Each.........12c

G-C POPULAR LARGE KNOB

Knurl shaft or set screw types. 1 3/16″ diameter.

KNURL SHAFT TYPE
GC No. 1180. Walnut Net... 10c

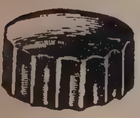
SET SCREW TYPE
GC No. 1181. Walnut. Net Each....11c

G-C MIDGET BAKELITE KNOBS

Set screw types for small sets. 11/16″ diameter, 1/4″ shaft.

Pointer GC No.	Non-Pointer GC No.	Color	Net Each
1115	1111	Walnut	8c
1116	1112	Ivory	10c
1117	1113	Red	10c
1118	1114	Black	8c

G-C MODERN LARGE KNOB

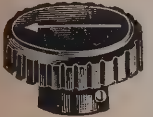


Knurl shaft or set screw types. 1 1/8″ diameter.

KNURL SHAFT TYPE
GC No. 1176. Walnut Net...10c

SET SCREW TYPE
GC No. 1177. Walnut Net...11c

G-C INSTRUMENT KNOB



1/4″ brass insert. Set Screw 1 3/4″ O.D. x 7/8″. Black.
GC No. 1175.
Net Each 33c

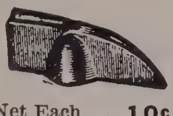
G-C MIDGET TYPE PLASTIC KNOB

23/32″ diameter for 1/4″ knurled knobs. Flush and 1/2″ shank types.

WITH 1/2″ SHANK
No. 1197. Walnut. Net Each.........8c
No. 1198. Ivory. Net Each..........9c

FLUSH TYPE
No. 1193. Walnut. Net Each.........8c
No. 1194. Ivory. Net Each..........9c

G-C STREAMLINE POINTER



1/4″ shaft, set screw type 1 1/4″ long.

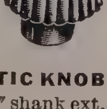
GC No. 1136— Black. Net Each....10c
GC No. 1136-W—Walnut. Net Ea..11c
GC No. 1137—Red. Net Each.....12c
GC No. 1137-I—Ivory. Net Each...13c

With Brass Bushing
GC No. 1170—Black. Net Each....17c
GC No. 1170-W—Walnut. Net Ea...17c
GC No. 1172R—Red. Net Each....20c
GC No. 1172-I—Ivory. Net Each...18c

G-C POINTER BAR KNOBS

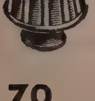
Set screws, 1/4″ shaft, 2 3/4″ long. Metal pointer can be removed.
GC No. 1130—Black. Net Each..........28c
GC No. 1130-W — Walnut, Net Each......28c

G-C PLASTIC KNOB



15/16″ diameter with 1/2″ shank extension for 1/4″ knurled shaft.
GC No. 1153
Walnut—Net...........8c
GC No. 1154
Ivory—Net.............9c

G-C MIDGET PLASTIC KNOB

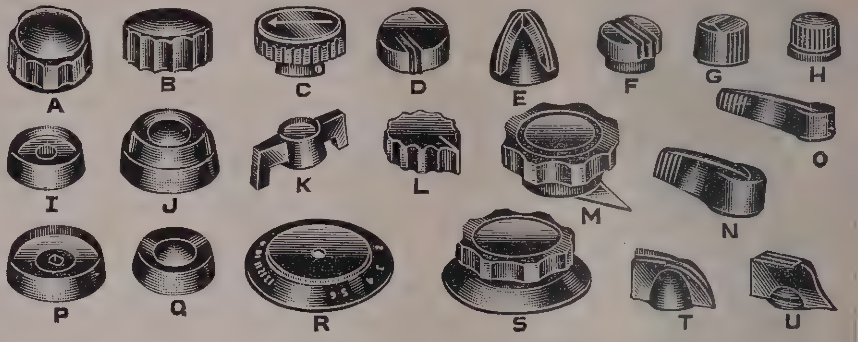


3/4″ diameter with 3/8″ shank ext. for 1/4″ knurled shafts.

GC. No.	Net
1157—Walnut	8c
1158—Ivory	9c

GEE-LAR KNOBS

Gee-Lar knobs are made either of Tenite or Bakelite. They are available in walnut ivory, black, red, or green—determined by "W," "I," "B," "R" and "G" respectively as shown below. No suffix after part number indicates knurl type fitting. "S" indicates spring type; "SS" indicates set screw type.



G-L No.	Type	Color	Size, In.	Net Each
480SS	A	W, I	1 1/16	12c
10	B	W, I	1 1/8	8c
10S	B	W, I	1 1/8	9c
10SS	B	W, I	1 1/8	10c
533SS	C	B	1 3/4	23c
180	D	W, I	15/16	8c
360	E	W, B, I	3/8	8c
360S	E	W, B, I	3/4	8c
360SS	E	W, B, I	3/4	9c
370	E	W, B, I	7/8	9c
370S	E	W, B, I	7/8	9c
370SS	E	W, B, I	7/8	11c
531SS	F	W, I	7/8	12c
170SS	H	W, B, R, I	11/16	10c
860	L	W, I	1	8c
860SS	L	W, I	1	10c
980SS	N	B, W	1 5/8	12c
970SS	O	B, W	2 1/2	17c
970ASS*	O	B, W	2 1/2	23c
1000SS	T	B, W, R, I	1 1/4	13c

*Brass insert.

GEE-LAR TELEVISION KNOBS

Front Dual Control Knob (Fig. P)—1 5/16″ O. D. Plated gold finish inlay. Used with rear knob No. 1205 and others.

G-L No. 1202—Fits 1/4″ knurl shaft. Net Each.................27c

G-L No. 1203—Fits 1/4″ flatted shaft. Net Each.................30c

G-L No. 1204—Fits .202″ flatted shaft. Net Each.................30c

Rear Dual Control Knob (Fig. O)—1 5/8″ dia. For standard .265″ diameter rear keyway shaft. As mate to front dual control knobs.
G-L No. 1205—Rear Knob. Net Each.........................17c

Combination Dual Knob (Fig. J)—Dummy type control knob. For matching on cabinet. 1 5/8″ dia. Fits 1/4″ flatted shaft. Plated gold finish inlay.
G-L No. 1206—Net Each........45c

G-L Dual Tuner Bar Knob (Fig. K). 2″ length. Plated gold finish inlay. Can be used with knob 1208. Fits 1/4″ dia. flat shaft.
G-L No. 1207—Bar Knob. Net Ea. 54c

Rear Dual Tuner Knob (Fig. I). 1 5/32″ diam. For standard 3/8″ diam. rear flat shaft.
G-L No. 1208—Rear dual knob. Net Each.........................17c

Channel Indicator Plate (Fig. Q). Walnut pattern, gold letters. Matches knobs listed above. Fits standard 3/8″ rear flat shaft.
G-L No. 1209—Net Each........45c

GEE-LAR INSTRUMENT KNOBS

G-L No. 580SS (Fig. M). Diameter 1 1/8″, height 5/8″, pointer 3/4″.
Net Each.........................42c
(Available with 1 1/16″, 1 3/16″ & 1 9/16″ pointers.)

G-L No. 620SS (Fig. S). Diameter 1 1/8″, height 13/16″, skirt 1 1/2″.
Net Each.........................43c
Also available with 2 1/16″ and 3″ skirts.

GEE-LAR KNOB ASSORTMENTS

A variety of types for 1/4″ shafts, consisting of new designs and standard models for replacement.

Assortment "A"—Contents: 36 assorted KNURLED type.

Assortment "B"—Contents: 30 assorted SPRING type.

Assortment "C"—Contents: 26 assorted set screw type.

Assortment "D"—Contents: 12 assorted auto radio type with brass bushings and reducing bushings for 3/16″ shaft.

Assortment "E"—Contents: 30 assorted as follows: 10 SET SCREW, 10 SPRING, 10 KNURLED types.

Assortment "F"—Contents: 50 assorted push buttons.

Assortment "H"—Contents: 24 assorted pointer and BAR SET SCREW KNOBS.

Any Assortment —
Net Each...$2.61

G-C ROYAL BAKELITE KNOBS

Beautiful pattern. Set screw type. 7/8″ dia., 1/4″ shaft.

GC No. 1105—Walnut. Net Each....14c
GC No. 1105-I—Ivory. Net Each....14c

G-C YANKEE BAKELITE KNOBS

Set Screw type. 3/4″ and 1″ dia., 1/4″ shaft.

GC No.	Net Each
1109—3/4″ Walnut	14c
1110—1″ Walnut	14c
1109-I—3/4″ Ivory	16c
1110-I—1″ Ivory	16c

G-C MAJESTIC BAKELITE KNOBS

Set screw type, 7/8″ dia., 1/4″ shaft.
GC No. 1100
Walnut—Net...........14c
GC No. 1100-I
Ivory—Net............14c

G-C TV KNOBS TO FIT RCA AND OTHER SETS

Front Dual Bar Pointer Channel Knob. Push on type to fit standard 1/4″ shaft flatted to .156″. Complete with spring. Flat adjacent to pointer.
G-C No. 8861 Knob—Net Each...30c

Rear Channel Knob. For No. 8861 above. Push on type to fit 3/8″ shaft flatted to .327″. Complete with spring.
G-C No. 8862 Knob—Net Each...27c

Front Knob "Off-On-Volume". Push on type to fit 3/16″ shaft flatted to .156″. Complete with spring.
G-C No. 8863 Knob—Net Each...15c

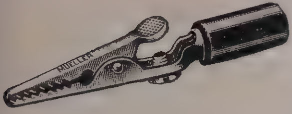
Rear Knob. For No. 8863 above. Push on type to fit 17/64″ shaft flatted to .237″. Complete with spring.
G-C No. 8864 Knob—Net Each...27c

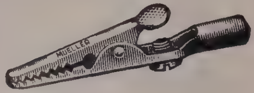
TV Knob Set. Complete set of one each of above boxed. Color brown only.
G-C No. 8860 Complete Set—
Net Each...........................99c

318X-54A

Clips, Plugs, Jacks, Binding Posts

MUELLER UNIVERSAL CLIPS





ALLIGATOR CLIPS

Accurately made, slim jaws, fine meshing teeth. Convenient round thumb grip, barrel connection for banana plug. 2 inches long. Strong spring with hard bite.

Mueller No. 30—Mini-Gator clip. Steel, cadmium plated. Solder connection. Length 1 1/16", Jaw spread 3/16", Shpg. Wt. 1/4 lb. 10 for.......46c Net Each.......**7c**

Mueller No. 30-C—Mini-Gator clip. Solid copper. Solder connection. Length 1 1/16", Jaw spread 3/16". Shpg. Wt. 1/4 lb. 10 for.......56c Net Each.......**8c**

Mueller No. 32—Insulator for clips No. 30 and 30-C. 10 for.......76c Net Each.......**11c**

Mueller No. 60—Cadmium plated steel, small soldering lip. 10 for.......46c Net Each.......**7c**

Mueller No. 60-S—Cadmium plated steel, screw connection. 10 for.......53c Net Each.......**8c**

Mueller No. 63—Above with 2-piece vinyl insulator. Net 10 for.......$2.10 Net Each.......**30c**

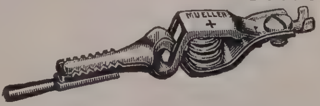
Mueller No. 60-CS—Copper, screw connection, for RF circuits. 10 for.......77c Net Each.......**11c**

Mueller No. 63-C—Above with 2-piece vinyl insulator. Net 10 for.......$2.30 Net Each.......**33c**

Mueller No. 60-HS—Cadmium plated steel, screw connection, insulated handle, red or black. Specify color. 2 1/4". 10 for.......84c Net Each.......**12c**

Mueller No. 60-CHS—Copper, screw connection, insulated handle, red or black. Specify color. 2 1/4" long. Net Ea. **16c**
10 for.......**$1.10**

CROCODILE CLIPS

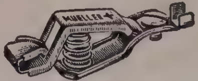


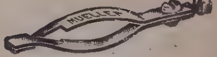
Very small clip with slender, elongated jaws for getting into tight places in radio or electrical test work.

Mueller No. 85—Cadmium plated steel, 2 1/8" long, screw connection. Net Each.......**8c**
10 for.......**55c**

Mueller No. 85-C—Copper for RF work. 2 1/8" long, screw connection. Net Each.......**14c**
10 for.......**$1.00**

Mueller No. 85-T—Cadmium plated steel, 2 5/8" long, screw connection, standard phone tip on jaw (as illustrated). Net Each.......**18c**
10 for.......**$1.30**



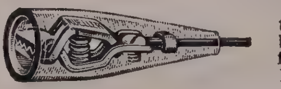


SMALL CLIPS

Mueller No. 45—"Pee Wee" very small test clip. Cadmium plated steel, 1 1/2" long. Jaw spread 3/8". Net Each.......**7c**
10 for.......**50c**

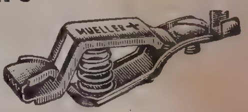
Mueller No. 88—"Wee Pee Wee" extremely small phosphor-bronze spring tempered clip for fine testing. 1 11/16" long, spread 1/4". 10 for **$1.30.** Net Each.......**19c**

SOLID COPPER RF TEST CLIP



Mueller No. 45-C—Solid copper RF test clip. Phosphor bronze spring, brass screw. Will not heat up from RF. 1 1/2" long. Net Each **11c**
10 for.......**80c**

BATTERY CLIPS



Mueller No. 48-B—2" steel, 1/2" jaw. Net Each.......**8c**
10 for.......**55c**

Mueller No. 48-C—2" copper, 1/2" jaw. Net Each.......**13c**
10 for.......**90c**

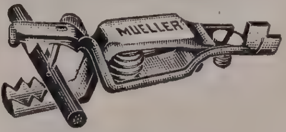
Mueller No. 27—Steel, teeth 3 sides. 2 7/16" long, 5/8" jaw. Net.......**11c**
10 for.......**80c**

Mueller No. 24-A—2 7/8" steel, 5/8" jaw. Net Each. **16c**
10 for.......**$1.10**

FLEXIBLE VINYLITE CLIP INSULATORS

Mueller No.	For Clip Numbers	Net Each	10 For
26	24-A, 24-C	$0.25	$1.80
29	27, 27-C	.17	1.20
47	45, 45-C	.07	.50
49	48-B, 48-C	.10	.70
62	60, 60-S, 60-CS, 60-HS	.07	.50
87	85, 85-C, 85-T	.07	.50
93	88	.05	.35

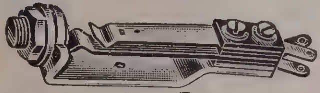
No. 47 Insulator illustrated above on No. 45-C Clip.



NEEDLE CLIP

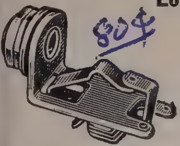
Mueller No. 50-C—Has needle in clip that pierces insulation for quick hook-up. Solid bronze.
Net Each.......**$0.25**
10 for.......**1.80**

MALLORY JACKS AND PLUGS

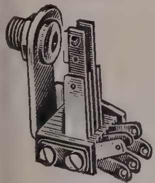


Long Frame

80¢

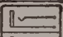
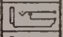
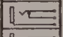
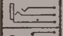
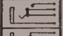
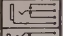
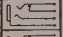
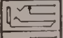
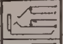
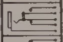
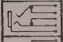
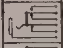
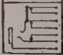


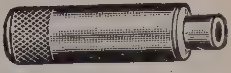
Midget



Junior

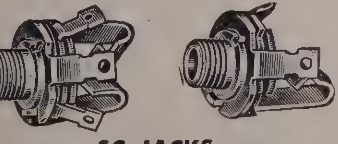
Long frame jacks are mounted horizontally to frame. Junior jack is made with frame and spring stack at right angles, with short springs, requiring only 1 15/16" behind panel. Both above models mount in a single hole in up to 5/16" thick panel. Midget jack is very compact and Infant jack is smallest made, but is for 2-way phone plug only. Midget and infant jacks mount in 3/8" hole in panel up to 1/4" thick. All jacks made with cadmium plated frames, brass bushings, nickel plated phosphor bronze springs, silver contacts. Complete with mounting nuts and washers.

Long Fr.		Junior		Infant and Midget		
Mal. No.	Net Ea.	Mal. No.	Net Ea.	Mal. No.	Net Ea.	Schem.
1	39c	701	33c	A-1	18c	
2	48c	702	45c	A-2	30c	
2A	48c	702A	45c	A-2A	33c	
2B	48c	702B	45c			
3	57c	703	51c			
3A	57c	703A	51c	A-3A	48c	
3B	57c	703B	51c			
3C	57c	703C	51c			
4	66c	704	60c			
4A	66c	704A	60c			
4B	66c	704B	60c			
5	72c	705	69c			
6	78c	706	75c			



EXTENSION JACKS

Mallory No.	Circuit	Shell	Net Each
100	2-way	Fiber	$0.78
100N	2-way	1-piece nickel	.99
100A	2-way	2-piece nickel, built in clamp	1.38

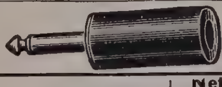


SC JACKS

Mallory No. SC-1A Phone Jack—Equivalent of Military No. JJ-034. Same spring arrangement as No. 1 Long Frame Jack. Designed to receive following plugs: Mallory No. 75; Western Electric Nos. 47A and 47B; Signal Corps Nos. PL-47, PL-48, PL-55, PL-148, PL-155. Net Each.......**33c**

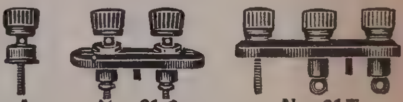
Mallory No. SCA-2B—Microphone Jack. Equivalent of Military Jack No. JJ-033. Same spring arrangements as No. 2B long frame jack. Designed to receive the following plugs: Western Electric No. 109 and Signal Corps Nos. PL-46, PL-68 and PL-168. Net Each.......**39c**

PHONE PLUGS



Mal. No.	Circuit	Shell	Net Each
55	....	Adapts mike con. to stand. jack	$0.27
75	2-way	Phenolic tie-cord anchor.	.39
75A	2-way	Nickel, 2-piece, tie-cord anchor, built-in cble. clp.	.99
75N	2-way	Nickel, tie-cord anchor	.60
76	3-way	Phenolic	.60
76A	3-way	Nickel, 2-piece, built-in cble. clp.	1.17
85	2-way	Miniature phone plug	.30

EBY BINDING POSTS



A No. 21R No. 21T

FIGURE A

Knob and base molded, knobs supplied plain or marked PLUS, MINUS, ANT, GND, at extra cost. Metal inserts are plain brass, knurled base to prevent post twisting. Hole in neck of Nos. 30, 37 and 40 is 5/32" diameter.

No. 21R—Insulated twin post. Both posts completely insulated. Center mounting screw, 6–32 x 1/4" long. Base is 2" long, 11/16" wide, 3/16" thick. All molded bakelite with non-removable tops, 1/2" in diameter. Center distance, 7/8" between posts. Net Each.......**51c**

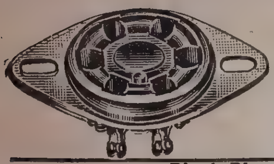
No. 21T—Triple post, two posts completely insulated. All molded bakelite, non-removable, 1/2" tops. One mounting screw, 6–32 x 1/4" long. Ground post stem is second mounting screw. Base 2 3/8" long, 11/16" wide, 3/16" thick. Net Each....**90c**

No. 30 JUNIOR: knob, 1/2" dia. x 7/16" high. Base, 1/2" dia. x 1/4" thick. Solid stem, 6-32 x 1/2" long. Drilled neck dia., 3/16". Contact flanges, 3/8". Net Each....**21c**

No. 37 ENSIGN: knob and base are molded bakelite. Dimensions same as Model 30 except stem, 6-32 x 5/8" long Net Each.......**24c**

AMPHENOL Sockets, Plugs, Connectors

REPLACEMENT SOCKETS



Consists of regular "S" type sockets assembled with retainer rings in sturdy nickel plated steel mounting rings. Use these sockets to replace broken and noisy wafer types. Either black phenolic or low-loss mica-filled. Mounting plate has slotted holes to fit centers from 1½″ to 1⅞″.

Contacts	Black Phenolic		Mica-Filled Phenolic	
	Amphenol No.	Net Each	Amphenol No.	Net Each
4	78-RS4	10c	....	....
5	78-RS5	11c	....	....
6	78-RS6	12c	....	....
7 Large	78-RS7L	18c	....	....
7 Small	78-RS7S	13c	....	....
8 Octal	78-RS8	12c	78-RS8T	17c
8 Loktal	78-RS8L	17c	....	....
9 Octal*	78-RS9	13c	....	....
11 Octal*	78-RS11	17c	78-RS11T	17c

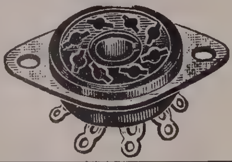
*Octal style.

STEATITE REPLACEMENT SOCKETS

Rugged, adapts to any application. Assembled with retainer ring to a nickel plated steel mounting plate. Slotted mounting holes fit any centers from 1½″ to 1⅞″. Requires 1¼″ hole.

Amph. No.	Contacts	Net Ea.	Amph. No.	Contacts	Net Ea.
49-RSS4	4	29c	49-RSS7L	7 Large	35c
49-RSS6	6	32c	49-RSS8	8 Octal	30c

MIP MOLDED-IN-PLATE SOCKETS



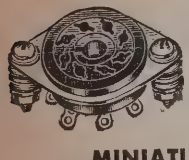
High dielectric black bakelite, steel mounting plate molded into solid body. Cannot come loose. Mount in 1⁵⁄₃₂″ hole. Two ⁵⁄₃₂″ holes on 1½″ mounting centers, except 77-MIP7L and 77-MIP20 which mount in 1⁹⁄₃₂″ hole and Compact MIP's which mount in 1⅛″ holes on 1⁵⁄₁₆″ centers.

Contacts	Black Phenolic		Mica-Filled Phenolic	
	Amphenol No.	Net Each	Amphenol No.	Net Each
4	77-MIP-4	8c	77-MIP-4T	10c
5	77-MIP-5	9c	77-MIP-5T	11c
6	77-MIP-6	11c	77-MIP-6T	13c
7 Large	77-MIP-7L	13c	77-MIP-7LT	16c
7 Small	77-MIP-7S	11c	77-MIP-7ST	14c
8 Octal	77-MIP-8	9c	77-MIP-8T	11c
9 Octal	77-MIP-9	11c	77-MIP-9T	13c
11 Octal	77-MIP-11	13c	77-MIP-11T	16c
12 Octal	77-MIP-12	15c	77-MIP-12T	17c

CONTACT MIP SOCKETS

8	88-8	9c	88-8T	14c
8 Loktal	88-8X	15c	88-8XT	16c

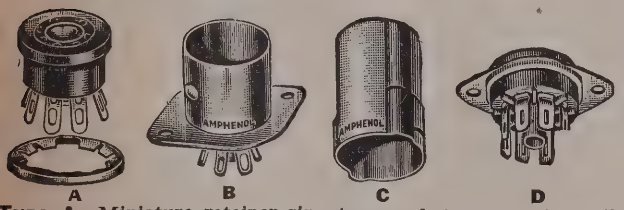
FLOATING OCTAL SOCKET



Live rubber grommets fit into mounting holes to cushion this socket for vibration free operation. Black bakelite dielectric. Mounts in 1³⁄₁₆″ hole above or below chassis. Two ¼″ screw holes on 1½″ centers.

Amphenol No. 77-MIP-8FK—Complete with 4 rubber grommets, 2 mounting screws. Net Each....**22c**

MINIATURE 7 AND 9 PIN SOCKETS

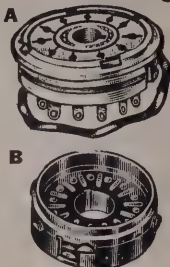


Type A—Miniature retainer ring type sockets mount in "D" shaped or round hole. ⅝″ diameter.

Types B, D—Miniature 7- and 9-pin sockets. 7-pin sockets mount in ⅝″ hole; mounting centers ⅞″. 9-pin sockets mount in ¾″ hole; mounting centers 1⅛″. Shielded sockets mount above chassis; unshielded sockets mount below.

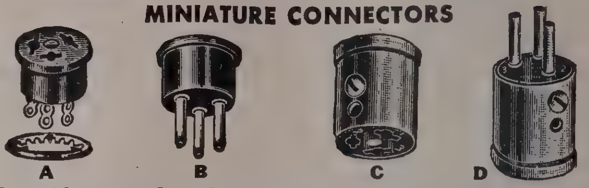
Amphenol No.	Type	Contacts	Material	Net Each
78-7P	A	7	Bakelite	12c
147-500	D	7	Bakelite	15c
147-501	D	7	Steatite	25c
59-409	D	9	Bakelite	20c
59-410	D	9	Mica Filled	20c
147-905	B	7	Bakelite	22c
147-913	B	7	Mica Filled	22c
147-925	B	7	Steatite	27c
59-406	B	9	Bakelite	25c
59-407	B	9	Mica Filled	29c
SHIELDS WITH SPRINGS				
5-401	C	For 7	1⅜″ high	7c
5-402	C	For 7	1¾″ high	7c
5-405	C	For 9	1½″ high	9c
5-408	C	For 9	1¹⁵⁄₁₆″ high	11c
5-409	C	For 9	2⅜″ high	11c

CATHODE RAY SOCKETS



Amph. No.	Style	Fig.	Pins	Dimen., Inches	Net Ea.
49-SS11L	Magnal	A	11	1¹⁄₁₆ circle 1⅝ hole	$0.62
59-402	Duodecal	B	12	1.063 circle	.69
59-415	Diheptal	B	14	1.75 circle 2.05 dia. tube base	1.00
59-417	Diheptal	B	14	1.75 circle 2.25 dia. tube base	1.00

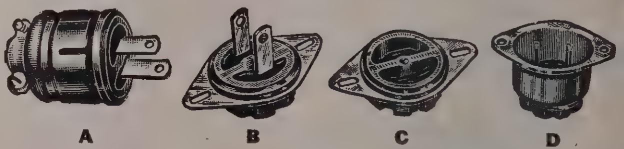
MINIATURE CONNECTORS



For cables up to 6 conductors. Polarized contacts make incorrect insertions impossible. Shell length on shielded connectors ¹³⁄₁₆″. Chassis mounting receptacles mount in ⅝″ hole, with ring.

Amphenol No.	Style	Contacts	Net Each
78-S3S	A	3	7c
78-S4S	A	4	7c
71-3S	B	3	6c
71-4S	B	4	8c
78-S6S	A	6	11c
71-6S	B	6	10c
91-MPM3S	D	3	23c
91-MPF3S	C	3	28c
91-MPM4S	D	4	23c
91-MPF4S	C	4	28c

PLUGS, RECEPTACLES, CONNECTORS, 110-250V



Shielded Cable Connectors—Fig. A—End Cable Outlet for cables up to ½″ dia. Fully shielded cable terminals with black bakelite connector units encased in a tight cap that fits securely and is easily removed. Available with cable clamp that relieves soldered connections of strain.

Amphenol No. 61-F11—2 Pole Universal Receptacle......**31c**

Amphenol No. 61-M11—2 Pole Standard Plug. Net........**34c**

2 Pole Plugs and Receptacles—Fig. B—Compact in design, molded from high dielectric black bakelite. Rated at 15 amp., 110 V. or 10 amp., 250 V. Requires 1⁹⁄₃₂″ D. chassis hole; has slotted screw holes on 1½″ to 1⅞″ centers.

Amphenol No. 61-F1—2 Pole Universal Receptacle. Net..**23c**

Amphenol No. 61-M1—2 Pole Standard Plug. Net Each...**23c**

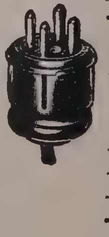
Molded-In-Plate Receptacle—Fig. C.—Same as 61-F1 Receptacle with standard steel mounting plate molded into the Bakelite body. Mounts in 1³⁄₁₆″ hole; two ⁵⁄₃₂″ screw holes on 1½″ centers.

Amphenol No. 61-MIP-61F—2 Pole Univ. Receptacle. Net Each..**19c**

Flush Motor Plug—Fig. D—Neat, compact plug or receptacle set in type 61-61 steel shell for below surface mounting. Room for insertion of Amphenol End Cable Outlet Plugs.

Amphenol No. 61-M10—2 Pole Standard Plug. Net Each.**29c**

SHIELDED CABLE CONNECTORS

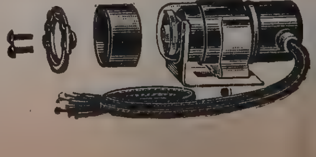


Multi-wire cable connectors consist of "S" type sockets and "CP" type plugs in metal cap shields.

Male Amphenol No.	Female Amphenol No.	Contacts	Net Each
86-PM4	78-PF4	4	20c
86-PM5	78-PF5	5	20c
86-PM6	78-PF6	6	21c
86-PM7S	78-PF7S	7 small	21c
86-PM8	78-PF8	8 octal	20c
86-PM9	78-PF9	9 keyed	21c
86-PM11	78-PF11	11 keyed	22c

TUNING EYE ASSEMBLY

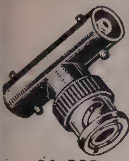
Consists of socket, internal 1 megohm resistor and 5 wire color-coded cable with 6 pin assembly, 8 wire color-coded 22″ cable with octal assembly, plus mounting bracket, escutcheon and hardware.



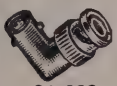
Amphenol No.	Net Each
58-MEA6—6 pin......	$1.14
58-MEA8—8 pin......	1.56

AMPHENOL Cable Connectors

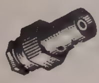
TYPE BNC CONNECTORS



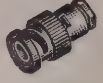
31-008



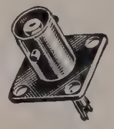
31-002



31-005



31-009



31-003

Type BNC Connectors incorporate quick connect and disconnect plus weatherproof features. Small, lightweight, low voltage types for use with small RF cables. Not constant impedance but produce very little discontinuity with 50 ohm coaxial cable.

50 Ohm For RG-55, 58, 58A/U Cables

Amph. No.	JAN No.	Description	Net Each
31-002	UG-88/U	Weatherproof plug	$1.32
31-001	UG-291/U	Panel Jack	1.44
31-005	UG-89/U	Weatherproof Jack	1.32
31-003	UG-290/U	Receptacle	1.32
31-817	UG-447/U	Same as 31-003 except threaded.	1.38
31-016	UG-254A/U	Pressurized receptacle	3.00
31-102	....	Receptacle, pressurized bulkhead	1.74
31-008	UG-274/U	Tee Adapter	4.26
31-009	UG-306/U	Right angle adapter	2.52
31-017	CW-159/U	Shorting plug with chain	.90
31-006	CW-123/U	Cap and chain for receptacles	.54
31-007	CW-155/U	Cap, without chain	.42

70 Ohm for RG-59, 62, 71/U

Amph. No.	JAN No.	Description	Net Each
31-012	UG-260/U	Weatherproof plug	$1.38
31-011	UG-262/U	Weatherproof panel jack	1.44
31-015	UG-261/U	Weatherproof jack	1.62

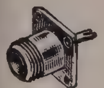
TYPE BN CONNECTORS

Type BN Connectors, electrically similar to BNC. Use in video, trigger-pulse and low RF applications, not recommended for frequencies in excess of 200mc and 250v max. Use only on inside equipment and for replacement purposes.

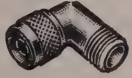
For RG-55, 58, 58A, 59, 62, 71/U Cables

Amph. No.	JAN No.	Description	Net Each
82-21	UG-85/U	Plug	$1.62
82-25	UG-114/U	Panel jack	2.46
82-26	UG-115/U	Jack	1.92
82-42	UG-87/U	Receptacle	1.32
31-101	UG-206/U	Bulkhead receptacle	2.46
31-759	....	Shield grounding lug for 31-101	.12

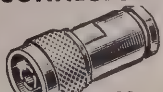
TYPE N CONNECTORS



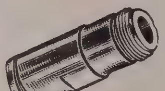
82-24



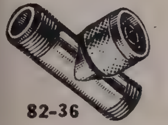
82-64



82-86



82-88



82-36

Type N Connectors are the most popular constant impedance connectors for medium size cables such as RG-8/U. Weatherproof. Useful up through microwave frequencies. May be used with 75 ohm cables with little impedance discontinuity.

50 Ohm For RG-8, 9, 9A, 10, 87, 116/U and Other Cables

Amp. No.	JAN No.	Description	Net Each
82-61	UG-21B/U	Plug with teflon insulator	$2.10
82-96	UG-21C/U	Air Force version of 82-61	2.28
82-104	UG-167A/U	Plug for RG-17, 18/U teflon ins.	4.86
82-105	UG-204A/U	Plug for RG-14/U	2.82
82-835	....	Angle plug with teflon insulator.	4.50
82-62	UG-22B/U	Panel jack with teflon insulator.	2.10
82-95	UG-22C/U	Air Force version of 82-62	1.86
82-63	UG-23B/U	Jack with teflon insulator	1.62
82-94	UG-23C/U	Air Force version of 82-63	2.34
82-67	UG-160A/U	Bulkhead jack with teflon insul.	2.40
82-93	UG-160B/U	Air Force version of 82-67	2.40
82-48	MX-564/U	Armor clamp for RG-10 & 116/U.	.78
82-24	UG-58/U	Receptacle with teflon insulator.	1.38
82-97	UG-58A/U	Receptacle with teflon insulator.	1.26
83-1H	UG-106/U	Hood for panel receptacles	.30
82-66	UG-30/U	Pressurized feed-through	1.98
82-100	UG-57B/U	Adapter with plug ends, tef. ins.	3.42
82-65	UG-29A/U	Adapter with teflon insulator	1.74
82-101	UG-29B/U	Adapter with teflon insulator	2.40
82-36	UG-107A/U	Tee adapter with teflon insulator	5.46
82-102	UG-107B/U	Tee adapter with teflon insulator	3.72
82-99	UG-28A/U	Tee adapter with female ends, Tef.	3.84
82-106	MX-913/U	Cap and chain for receptacles	.72

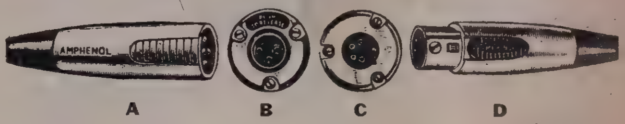
50 Ohm For RG-5, 5A, 21/U, also with 6/U

Amp. No.	JAN No.	Description	Net Each
82-86	UG-18B/U	Plug with teflon insulator	$2.40
82-87	UG-19B/U	Panel jack with teflon insulator.	2.28
82-88	UG-20B/U	Jack with teflon insulator	2.04

70 Ohm For RG-11, 12, 13/U

Amp. No.	JAN No.	Description	Net Each
82-84	UG-94A/U	Plug with teflon insulator	$2.58
82-90	UG-96A/U	Panel jack with teflon insulator.	2.10
82-89	UG-95A/U	Jack with teflon insulator	1.86

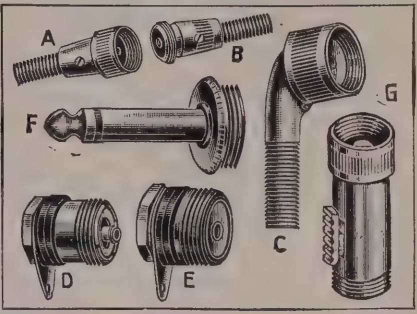
NEW QWIK MICROPHONE CONNECTORS



Amphenol QWIKS, the newest, most efficient and attractive mike connectors ever offered. Available in 3 or 4 contacts with either male or female plugs or receptacles. Shell bodies are high grade zinc alloy, insert material is Amphenol blue dielectric 1-501. Contacts are gold plated for easy soldering. Satin nickel finish resists corrosion. Connectors are fast acting, positive contact quick disconnect units.

Amphenol No.	Description	Contacts	Fig.	Net Each
91-853	Male Plug	3	A	$0.93
91-854	Female Plug	3	C	1.14
91-855	Male Receptacle	3	D	.69
91-856	Female Receptacle	3	B	1.38
91-857	Male Plug	4	A	.93
91-858	Female Plug	4	C	1.26
91-859	Male Receptacle	4	D	.69
91-860	Female Receptacle	4	B	1.53

MICROPHONE CONNECTORS



PRESSURE TYPE

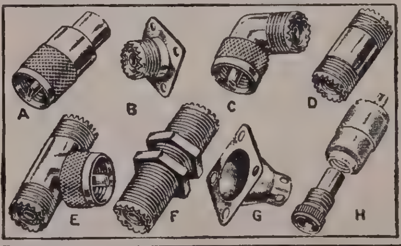
In the 75 Series, plugs mate all cable jacks and receptacles. Pressure contacts spring actuated. Circuit closing contacts same except that they close circuit when plug is disengaged. Mounts in .385″ hole grounded to chassis, ½″ hole, ungrounded.

Amph. No.	Fig.	Description	Net
75-PC1M	E	Locknut receptacle	$0.23
75-CL-PC1M	D	Locknut receptacle, closed circuit.	.34
75-MC1P	F	Standard phone plug adaptor	.31
75-CCC1	.....	Dust-cover cap and chain	.25
75-MC1S	G	Microphone switch, push to talk or slide	$1.10
75-MC1F-A	C	Angle plug	.60
75-MC1F	A	Straight plug	.32
75-MC1M	B	Cable jack	.21

MICROPHONE CONNECTORS—1, 2, 3, 4 CONTACT

Amph. No.	Description	Contacts	Net
80M	Male plug	1	$0.43
80F	Female cable jack	1	.38
80C	Female chassis receptacle	1	.35
80-MC2M	Male plug	2	.45
80-MC2F	Female cable jack	2	.40
80-PC2F	Female chassis receptacle	2	.37
91-MC3M	Male plug	3	.65
91-MC3F	Female cable jack	3	.65
91-PC3F	Female chassis receptacle	3	.52
91-MC4M	Male plug	4	.67
91-MC4F	Female cable jack	4	.68
91-PC4F	Female chassis receptacle	4	.53

UHF 83 SERIES COAXIAL CONNECTORS



Amphenol Low-loss RF Connectors, Adapters and Terminations have been especially designed for use with Coaxial and Twin Coaxial Cable similar to Amphenol RG-/U cable.

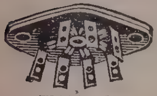
Amph.	Fig.	Description	Net
83-1SP	A	Plug for small and medium sized cable.	$0.78
83-168	H	Reducing adapter for RF-59, 62, 71/U.	.18
83-185	H	Reducing adapter for RG-29, 55, 58/U.	.18
83-776	A	Plug for RG-29, 55, 58, 59, 62/U	.90
83-1R	B	Receptacle, mica filled insert	.72
83-1H	G	Hood for RG-8, 10, 11, 12, 22/U	.30
83-1HP	G	Receptacle hood for RG-9 and 13/U	.36
83-1T	E	T connector	1.92
83-1AP	C	Angle plug adapter	1.68
83-1J	D	Junction	1.02
83-1F	F	Feed-through, pressurized	1.80

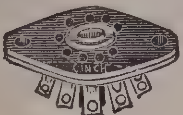
TWIN COAXIAL CONNECTORS

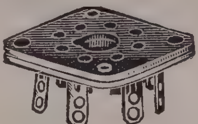
Amph.	Fig.	Description	Net
83-22SP	A	Straight plug	1.02
83-22R	B	Chassis or box type receptacle	1.14
83-22AP	C	Angle plug adapter	1.92
83-22J	D	Junction	1.50
83-22F	F	Pressurized feed-through	2.22
83-22T	E	T connector	2.88

Sockets, Plugs and Terminals by Cinch Jones

WAFER TYPE SOCKETS

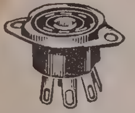

TYPE A MINIATURE

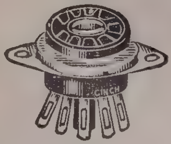

TYPE B NOVAL

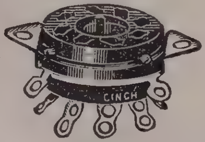

TYPE C OCTAL

Cinch Jones No.	Type No.	Description	Mtg. Centers	Net Each
7W2A	A	7-pin min. Chocolate XP bake-	7/8″	$0.09
7WL2	A	lite laminations. Solder-coated	1″	.11
7WL4	A	brass contacts and center shield.	1 5/16″	.11
9W1	B	9-pin min. Solder-coated brass	1 1/8″	.11
9W2	B	contacts ahd center shield.	1 5/16″	.13
8W1	C	Wafer octal. Fits all standard 8-	1 5/16	.10
8W2	C	prong tubes. .136 dia. mtg. hole.	1 1/2″	.10

SADDLE TYPE SOCKETS

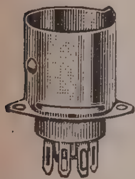

TYPE A MINIATURE

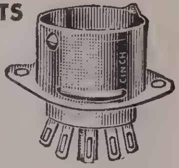

TYPE B NOVAL


TYPE C OCTAL

Cinch Jones No.	Type No.	Description	Mtg. Centers	Mounting	Net Each
7EB	A	Black	7/8″	Bottom	$0.14
7EM	A	Mica	7/8″	Bottom	.19
7AB1	A	Black	7/8″	Top	.14
7AM1	A	Mica	7/8″	Top	.19
9EB	B	Black	1 1/8″	Bottom	.22
9EM	B	Mica	1 1/8″	Bottom	.25
9AB	B	Black	1 1/8″	Top	.22
9AM	B	Mica	1 1/8″	Top	.25
8AB	C	Black	1 5/16″	Top	.10
8AM	C	Mica	1 5/16″	Bottom	.15
8EB	C	Black	1 1/2″	Bottom	.10
8EM	C	Mica	1 1/2″	Top	.15
8EC	C	Ceramic	1 1/2″	Top	.35

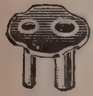
SHIELD BASE TYPE SOCKETS


TYPE A MINIATURE


TYPE B NOVAL

Cinch Jones No.	Type No.	Description	Mtg. Centers	Net Each
7XB1	A	Black	7/8″	$0.26
7XM1	A	Mica	7/8″	.30
7XC	A	Ceramic	7/8″	.50
9XB	B	Black	1 1/8″	.38
9XM	B	Mica	1 1/8″	.41
9XC	B	Ceramic	1 1/8″	.58

BATTERY PLUGS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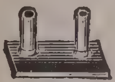
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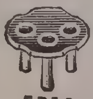
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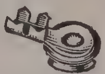
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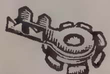
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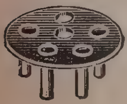
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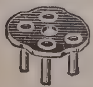
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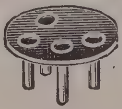
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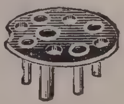
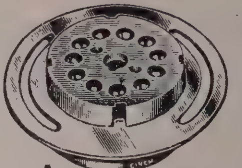
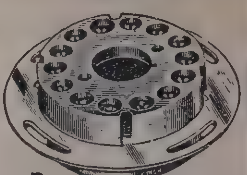

5AB6

Cinch Jones No.	Prongs	For	Net Each
5A1	2	1½ A	$0.04
5A2	2	3 A	.05
5A3	2	4½ A	.04
5A4	2	6 A	.04
5A5	3	7½ A	.06
5B1A	3	45 B Small	.05
5B2	3	45 B Large	.05
5M	...	67½ B	.03
5F	...	67½ B	.04
5MFA	...	67½ B	.21
5C1	3	4½ C	.07
5C2	4	22½ C	.08

Cinch Jones No.	Prongs	For	Net Each
5AB1	4	1½ A, 90 B	$0.07
6K4	4	9 A, 90 B	.06
5AB2	4	1½ A, 63, 90 B	.05
5AB3	4	6 A, 90 B	.06
5AB4	5	6 A, 90 B	.09
5AB5	4	6 A, 90 B	.07
5AB6	5	7½ A, 90 B	.08
5AB7	5	9 A, 90 B	.09
5AB8	5	9 A, 90 B	.08

MAGNAL AND DIHEPTAL SOCKETS

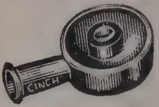

A

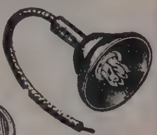

B

11-PRONG MAGNAL (Fig. A) Mica-filled low loss bakelite. 1 23/32″ wide x 1 9/64″ high. Full floating silver plated beryllium copper contacts. For use with 5BP1 and 2AP1.
Cinch No. 3M11—Net. $4⁵⁶
No. 3R11—Steel mounting ring. Net Each **32c**

14-PRONG DIHEPTAL (Fig. B) Same features as Magnal.
No. 3B14—Black. Net. $1⁵²
No. 3M14—Mica. Net. .**$1.90**
No. 3R14—Mtg. Ring. Net. **32c**

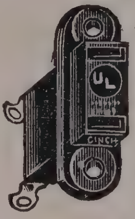
SECOND ANODE CONNECTORS


TYPE A


TYPE B

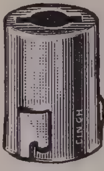
Cinch Jones No.	Type No.	Wire Lead	Net Each
3A1	A	....	$0.57
3A2	B	12″	.68
3A3	B	15″	.80
3A4	B	18″	.95

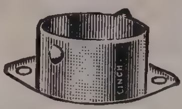
110-250 VOLT SOCKET

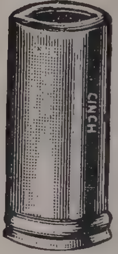


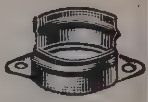
Rated at 15 amp., 110 V or 10 amp., 250 V. Accepts any standard 2-prong electric plug. Mounts in 25/64″ x 25/32″ hole. Ideal for radio and TV chassis.
2R2—Net. . **15c**

SHIELDS AND SHIELD BASES


TYPE A


TYPE B

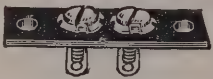


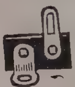

TYPE C

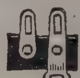
Cinch Jones No.	Type No.	Description	Height	Net Each
7S2	A	Miniature	1 3/8″	$0.13
7S3	A	Miniature	1 3/4″	.13
7S4	A	Miniature	2 1/4″	.19
7SB1	B	Miniature	5/8″	.13
7S1	C	Miniature	1 53/64″	.08
9S1	A	Noval	1 1/2″	.20
9S2	A	Noval	1 15/16″	.22
9S3	A	Noval	2 3/8″	.28
9SB1	B	Noval	1 1/8″	.17

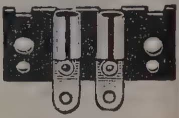
TERMINAL STRIPS

SCREW TYPE   A LUG TYPE B   CONTACT TYPE









SCREW TYPE

Cinch No.	Contacts	Mtg. Ctrs.	Net Each
17-1	1	7/8″	$0.04
17-2	2	1 5/16″	.06
17-3	3	1 3/4″	.09
17-4	4	2 3/16″	.12
17-5	5	2 5/8″	.14
17-6	6	3 1/16″	.17
17-7	7	3 1/2″	.21
17-8	8	3 15/16″	.23
17-9	9	4 3/8″	.27
17-10	10	4 13/16″	.29

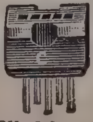
CONTACT TYPE

Cinch Jones No.	Contacts	Mtg. Ctrs.	Net Each
49-1	1	3/4″	$0.04
49-2	2	1 1/8″	.06
49-3	3	1 1/2″	.08
49-4	4	1 7/8″	.10
49-5	5	2 1/4″	.12
49-6	6	2 5/8″	.14

LUG TYPE

Cinch Jones No.	Type	Contacts	Mtg. Centers	Net Each
51	A	1	....	$0.02
51A	B	2	....	.02
52	A	2	....	.03
52A	B	3	....	.03
54	A	4	1 7/8″	.05
54A	B	6	1 7/8″	.05
55	A	5	2 1/4″	.06
55A	B	7	2 1/4″	.06
56	A	6	2 5/8″	.07
56A	B	8	2 5/8″	.07

SUB-MINIATURE HEARING AID SOCKETS

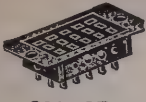


Molded from mica filled low-loss bakelite with silver plated beryllium copper contacts. For Raytheon Type CK series subminiature tubes.

		Net Each
2H5	5-prong	$0.28
2H6	6-prong	.29
2H7	7-prong	.31

Howard B. Jones Connectors

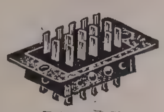
SOCKETS TYPE SB SHALLOW BRACKETS



S315 SB

Cinch Jones No.	Contacts	Net Each
S315SB	15	$0.97
S318SB	18	1.16
S321SB	21	1.35
S324SB	24	1.59
S327SB	27	1.78
S330SB	30	2.02
S333SB	33	2.21

PLUGS TYPE SB SHALLOW BRACKETS



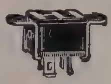
P315 SB

Cinch Jones No.	Contacts	Net Each
P315SB	15	$0.86
P318SB	18	1.06
P321SB	21	1.25
P324SB	24	1.49
P327SB	27	1.67
P330SB	30	1.91
P333SB	33	2.11

"300" SERIES CONNECTORS

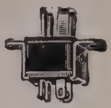
Compact, Polarized Connectors. Black crystal finished metal caps encase metal body. Phosphor bronze "knifeswitch" type socket contacts engage both sides of flat plug contacts. Rated at 730 rms volts at 10 amps.

SOCKETS TYPE AB WITH ANGLE BRACKETS



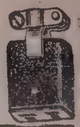
Cinch Jones No.	Contacts	Net Each
S302AB	2	$0.19
S303AB	3	.23
S304AB	4	.26
S306AB	6	.32
S308AB	8	.40
S310AB	10	.47
S312AB	12	.55

PLUGS TYPE AB WITH ANGLE BRACKETS



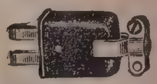
Cinch Jones No.	Contacts	Net Each
P302AB	2	$0.17
P303AB	3	.22
P304AB	4	.24
P306AB	6	.29
P308AB	8	.35
P310AB	10	.40
P312AB	12	.44

SOCKETS TYPE CCT WITH CABLE CLAMPS



Cinch Jones No.	Contacts	Net Each
S302CCT	2	$0.41
S303CCT	3	.44
S304CCT	4	.47
S306CCT	6	.55
S308CCT	8	.63
S310CCT	10	.71
S312CCT	12	.80

PLUGS TYPE CCT WITH CABLE CLAMPS



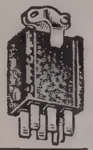
Cinch Jones No.	Contacts	Net Each
P302CCT	2	$0.40
P303CCT	3	.43
P304CCT	4	.47
P306CCT	6	.52
P308CCT	8	.57
P310CCT	10	.64
P312CCT	12	.70

400 SERIES AND 2400 SERIES

400 Series are rated at 11,000 rms volts at 15 amps. Polarized Phosphor bronze "knifeswitch" socket contacts engage both sides of flat plug contacts.

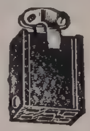
2400 Series are an improved design similar to the 400 series. Barriers around the terminals increase the creepage distance of contact to contact and contact to ground, resulting in higher current rating. Interchangeable with the 400 series.

400 SERIES PLUGS TYPE CCT WITH CABLE CLAMPS



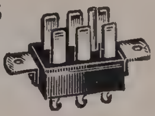
Cinch Jones No.	Contacts	Net Each
P402CCT	2	$0.68
P404CCT	4	.82
P406CCT	6	.97
P408CCT	8	1.10
P410CCT	10	1.24
P412CCT	12	1.39
2400 SERIES		
P2402CCT	2	.83
P2404CCT	4	.94
P2406CCT	6	1.06
P2408CCT	8	1.16
P2410CCT	10	1.28
P2412CCT	12	1.41

400 SERIES SOCKETS TYPE CCT WITH CABLE CLAMPS



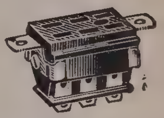
Cinch Jones No.	Contacts	Net Each
S402CCT	2	$0.73
S404CCT	4	.92
S406CCT	6	1.11
S408CCT	8	1.30
S410CCT	10	1.50
S412CCT	12	1.69
2400 SERIES		
S2402CCT	2	.90
S2404CCT	4	1.00
S2406CCT	6	1.12
S2408CCT	8	1.24
S2410CCT	10	1.37
S2412CCT	12	1.50

400 SERIES PLUGS TYPE AB ANGLE BRACKETS



Cinch Jones No.	Contacts	Net Each
P402AB	2	$0.43
P404AB	4	.52
P406AB	6	.63
P408AB	8	.73
P410AB	10	.82
P412AB	12	.91
2400 SERIES		
P2402SB	2	.59
P2404SB	4	.70
P2406SB	6	.81
P2408SB	8	.92
P2410SB	10	1.05
P2412SB	12	1.16

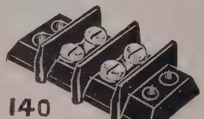
400 SERIES SOCKETS TYPE AB ANGLE BRACKETS



Cinch Jones No.	Contacts	Net Each
S402AB	2	$0.49
S404AB	4	.63
S406AB	6	.77
S408AB	8	.91
S410AB	10	1.06
S412AB	12	1.20
2400 SERIES		
S2402SB	2	.65
S2404SB	4	.76
S2406SB	6	.88
S2408SB	8	1.00
S2410SB	10	1.13
S2412SB	12	1.25

JONES BARRIERS No. 140-141-142 SERIES

Increased insulation is provided by having barriers placed between each terminal. These barriers follow around the edge of the strips and terminate at the base. They not only make a long leakage path but prevent direct shorts from frayed wires at terminals.



140

Base Dim. 7/8" wide x 13/32" High. 3/8" Term. Centers.

Cinch Jones No.	Term.	Net Each
2-140	2	$0.14
3-140	3	.20
4-140	4	.25
5-140	5	.31
6-140	6	.35
8-140	8	.46
10-140	10	.57
12-140	12	.67

Up to 21 contacts.

Base Dim. 1 1/8" Wide x 1/2" High. 7/16" Term. Centers.

Cinch Jones No.	Term.	Net Each
2-141	2	$0.19
3-141	3	.25
4-141	4	.32
5-141	5	.39
6-141	6	.45
8-141	8	.59
10-141	10	.73
12-141	12	.86

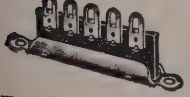
Up to 20 contacts.

Base Dim. 1 5/16" Wide x 5/8" High. 9/16" Term. Centers.

Cinch Jones No.	Term.	Net Each
2-142	2	$0.22
3-142	3	.31
4-142	4	.39
5-142	5	.47
6-142	6	.55
8-142	8	.72
10-142	10	.89
12-142	12	1.06

Up to 17 contacts.

JONES 2000 SERIES



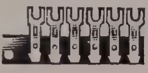
Compact and sturdy junction terminal strip. Useful in assembling radio chassis, wiring, etc. Available in sizes from two terminals to thirteen terminals. Sturdy bakelite insulation.

Terminals of .019 brass, tin plated on 5/16" centers. Cadmium plated steel mounting brackets.

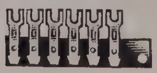
Cinch Jones No.	Term.	Mtg. Ctrs.	Net Each
2002	2	1"	$0.05
2003	3	1 5/16"	.06
2004	4	1 5/8"	.06
2005	5	1 15/16"	.07
2006	6	2 1/4"	.07
2007	7	2 9/16"	.08

Cinch Jones No.	Term.	Mtg. Ctrs.	Net Each
2008	8	2 7/8"	$0.08
2009	9	3 3/16"	.09
2010	10	3 1/2"	.09
2011	11	3 3/16"	.10
2012	12	4 1/8"	.10
2013	13	4 7/16"	.11

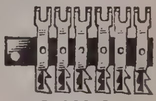
JONES FANNING STRIPS



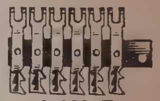
6-161-L



6-161-R



6-160-L



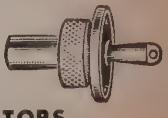
6-160-R

160 Series fit the 140 series barriers. Terminals are mounted on 8/32" Bakelite, 1/2" wide and on 3/8" centers.
161 Series fit the 141 series barriers. Terminals are mounted on 8/32" Bakelite, 5/8" wide and on 7/16" centers.
162 Series (not illustrated) are the same design as the 161 series, but fit the 142 series barriers. Terminals are mounted on 3/16" Bakelite, 5/8" wide and on 9/16" centers.

No. Term.	160 Series*	Net Each	161 Series†	Net Each	162 Series•	Net Each
2	160L—160R	8c	161L—161R	8c	162L—162R	10c
3	160L—160R	12c	161L—161R	13c	162L—162R	14c
4	160L—160R	15c	161L—161R	16c	162L—162R	17c
5	160L—160R	19c	161L—161R	20c	162L—162R	21c
6	160L—160R	23c	161L—161R	24c	162L—162R	26c
8	160L—160R	31c	161L—161R	31c	162L—162R	33c
10	160L—160R	38c	161L—161R	39c	162L—162R	41c
12	160L—160R	46c	161L—161R	46c	162L—162R	48c

*Up to 21 contacts. †Up to 20 contacts. •Up to 17 contacts.

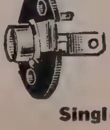
JONES 101 SERIES



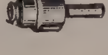
Low loss type for high frequency. Uses prongs 1/8" diameter. Nickel plated brass. For co-axial or shielded single wire conductor.

P101 1/4" Male **$0.43** | **S101** Female **$0.38**

RCA TYPE PHONO CONNECTORS



Phono Plugs

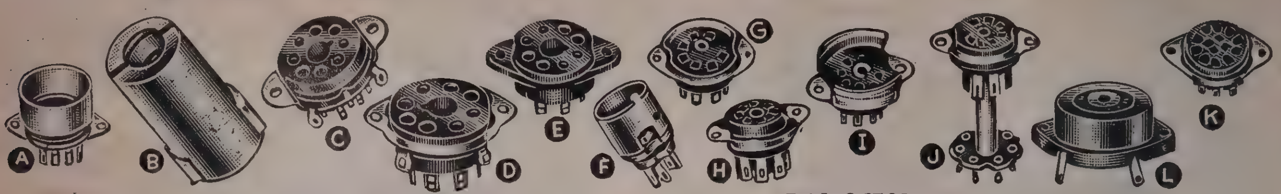


Cinch No.	Dimensions	Net Each
13A Plug	9/16" pin	$0.06
13E plug	11/16" pin	.06

Jack, 11/16" mounting centers for use with "A".

Single Phono Jack Cinch No. 81A—Net Each.....**$0.09**

Eby Electronic Tube Sockets



JAN S-28 SOCKETS AND SHIELDS

Shield base, **Fig. A**; Shield only, **Fig. B**; Octal Saddle Socket, **Fig. C.**

Eby No.	JAN No. S-28 A	JAN No. S-28 A1	Description	Net Each
9715	TSE 7T 102	TS 102 C01	7-pin ceram. shield base	$0.42
9736	TSE 7T 101	TS 102 P01	7-pin mica-filled base	.30
9717	TSE 9T 102	TS 103 C01	9-pin ceram. shield base	.57
9718	TSE 9T 101	TS 103 P01	9-pin mica-filled base	.42
9700	TSF 0T 101	TS 102 U01	7-pin tube shield, 1⅜"	.15
9701	TSF 0T 102	TS 102 U02	7-pin tube shield, 1¾"	.15
9702	TSF 0T 103	TS 102 U03	7-pin tube shield, 2¼"	.19
9703	TSF 0T 104	TS 103 U01	9-pin tube shield, 1½"	.19
9704	TSF 0T 105	TS 103 U02	9-pin tube shield, 1 15/16"	.20
9710	TSF 0T 106	TS 103 U03	9-pin tube shield, 2⅜"	.24
9756	TSB 8T 102	TS 101 C01	Octal, saddle, ceramic	.63
9753	TSB 8T 101	TS 101 P01	Same, mica-filled	.41
9751-18	....	TS 101 P02	9753 w/Pem Nut	.51
9751-21	....	TS 101 C02	9756 w/threaded hole	.45

SPLIT SADDLE SOCKETS (FIG. I)

Description	7-Pin Type Eby No.	7-Pin Type Net Ea.	9-Pin Type Eby No.	9-Pin Type Net Ea.
Black Bakelite	2501	11c	2506	15c
Mica-filled Bakelite	2502	13c	2507	18c

STANDARD MINIATURE SOCKETS

7-PIN—MOUNTING CENTER ⅞"

Description	Shock Shield Type (Fig. F) Eby No.	Shock Shield Type (Fig. F) Net	Saddle Type (Fig. G & H) Top Mount Eby No.	Top Mount Net	Bottom Mt. Eby No.	Bottom Mt. Net
Black Bakelite	8322	18c	8323	9c	8578	9c
Mica-filled Bakelite	8329	21c	8327	12c	9064	12c
Ceramic	8328	33c	8326	27c	....	.....
Shield Base Only	9061	7c	....	......	....	.....
9-PIN—MOUNTING CENTER 1⅛"						
Black Bakelite	9723	27c	9001	12c	9012	12c
Mica-filled Bakelite	9714	30c	9430	15c	9400	15c
Ceramic	9716	57c	9735	45c	9713	45c
Shield Base Only	9062	11c	....	......	....	.....

RTMA OCTAL AND LOCTAL SOCKETS

Black bakelite, steel saddle, cadmium plated with 4 ground lugs. Mounting centers, 1 5/16". Brass contacts, cadmium plated.

Eby No.	Description	Net
9067	Octal, black bakelite, saddle type (**Fig. D**)	8c
8996	Same as 9067 except mica-filled bakelite	13c
8490	Octal, all-molded type (**Fig. E**)	9c
8451	Loctal, black bakelite, saddle type	10c
8191	Loctal, all-molded type	9c

SHIELDS (FIG. B)

For Shock Shield Sockets Eby No.	Type	Net	Saddle and Split-Saddle Sockets Eby No.	Type	Net
5001	7-pin, 1⅜" H.	13c	8757	7-pin, 2" High	6c
5002	7-pin, 1¾" H.	13c	8758	Adapter for 8758	3c
5003	7-pin, 2¼" H.	19c	8759	9-pin, 2" High	9c
5006	9-pin, 1½" H.	14c	8760	Adapter for 8760	3c
5007	9-pin, 1 15/16" H.	15c	Adapters needed with saddle type sockets only.		
5008	9-pin, 2⅜" H.	17c			

TURRET SOCKETS (FIG. J)

Description	7-Pin Type Eby No.	7-Pin Type Net Ea.	9-Pin Type Eby No.	9-Pin Type Net Ea.
Saddle Mt., 1⅛" Shaft	9801	75c	9809	84c
Saddle Mt., 1½" Shaft	9802	75c	9810	90c
Shield Mt., 1⅛" Shaft	9805*	84c	9813	99c
Shield Mt., 1½" Shaft	9806*	84c	9814	99c

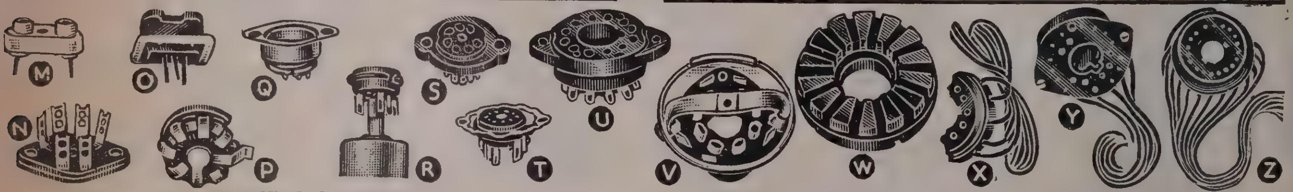
*Supplied in two parts—a saddle mount socket and a separate shield base for assembly on the job.

14-PIN RELAY SOCKET (FIG. K)

Designed around the standard noval socket, for use in mounting the new 14 point relays. Body is of mica-filled bakelite.
Eby No. 9759—Top mount. Net Each.................... 56c
Eby No. 9760—Bottom mount. Net Each....................56c

TYPE 12 SOCKET (FIG. L)

Eby No.	Description	Net Each
12-4	4 contacts	30c
12-5	5 contacts	31c
12-6	6 contacts	33c
12-7-N-O	7 large and small combined	35c
12-8	8 contacts	36c



CRYSTAL SOCKETS

No. 8879 (CR-7)—FIG. M—For crystals having .050 diameter pins and .486 spacing between pins. Steatite with phosphor bronze cadmium plated contacts. Net Each............... 15c

No. 9006—Same as 8879 except with beryllium copper silver plated contacts. Net Each....................................21c

No. 7756 (SO-200)—Not Ill.—For erystals having ¾" centers and .135 diameter. Banana-type or .156 solid type pins. Net Each.. 45c

MINIATURE LAMINATED WAFER SOCKETS (FIG. N)

7-PIN TYPES

Eby No.	Description	Net
49-1	Laminated bakelite, ⅞" mtg. ctrs., 11/16" W.	6c
49-2	Same as 49-1 with center shield and grd. strap	7c
49-11	1" mounting centers, ⅞" wide	7c
49-12	Same as 49-11 with center shield and grd. strap	7c
48-21	1 5/16" mounting centers, 1⅜" wide	8c
9-PIN TYPES		
49-21	1⅛" mounting centers, 1" wide	8c
49-22	Same as 49-21 with center shield and grd. strap	8c
49-31	1 5/16" mounting centers, 1⅜" wide	9c
OCTAL TYPES		
46-5-E	1 5/16" mtg. ctrs., 1 13/32" W., 1 27/32" L.*	6c
46-1-E	1½" mtg. ctrs., 1 13/32" W., 1 27/32" L.*	6c
GLASS TUBE TYPES		
34-1-AA	4-Prong. 1⅜" W., 1⅞" L., 1½" mtg. ctr.	7c
34-1-B	5-Prong. 1½" W., 1⅞" L., 1½" mtg. ctr.	8c
34-1-C	6-Prong. 1½" W., 1⅞" L., 1½" mtg. ctr.	8c

SUBMINIATURE AND SPECIAL SOCKETS

TRANSISTOR SOCKET No. SM-3 (FIG. O)

Low-loss phenolic casting. 3 contacts of beryllium copper, silver plated, tin dipped. With push-on bracket. Net...... 24c

SUBMINIATURE SOCKETS AND SHIELD (NOT ILL.)

Rectangular (except SM-8, round), low loss phenolic. Beryllium copper contacts, silver plated, tin dipped. With mtg. bracket.

Eby No.	Contacts	Net Ea.	Eby No.	Contacts	Net Ea.
SM-3	3	24c	SM-7	7	24c
SM-5	5	20c	SM-8	8	39c
SM-6	6	22c	SH-1	Shield for SM-8	11c

PRINTED CIRCUIT SOCKET No. PC-7 (FIG. P)

7-pin general purpose phenolic miniature socket for printed and etched circuit requirements. Snap-action contacts. Available with long strap for grounding tube shield. Net Each.. 13c

No. PC-9—Same as above, but 9-pin socket. Net Each.....20c

UHF SOCKET No. UHF-1 (FIG. Q)

Recessed socket for under-chassis mounting. Net Each.. 22c

No. UHF-2—Top-chassis mounting. Net Each..............18c

No. UHF-3—Bottom chassis mounting. Net Each...........18c

HIGH VOLTAGE SOCKET No. HU-1 (FIG. R)

9-pin general purpose phenolic miniature socket for center or for direct mounting on high voltage filter. With 6/32 outside thread. Net Each.. 20c

No. HU-2—Same, except with 8/32 inside thread. Net Each 17c

SHOCK MOUNTED SOCKET No. 1315 (FIG. T)

Mounting spring of grade C phosphor bronze. 9-pin miniature type. 1⅛" mounting centers. Net Each........... 16c

No. 1316 (Fig. S)—Mounting made of soft, resilient rubber. ⅞" spacing. 7-pin type. Net Each.................................30c

MICA FILLED DUO-DECAL SOCKET No. 9058 (FIG. U)

For mounting CRT's. Compact, rugged design. Net Each.. 94c

No. 9024—Same, but black bakelite. Net Each............78c

HIGH VOLTAGE SOCKET No. 021-HV (FIG. V)

Octal, for use with 1B3 tube. Laminated bakelite with steel yoke holding spring steel corona ring. Net Each.......... 28c

No. 024-HV—Laminated octal socket mounted in round metal shield. Used in RCA-type TV receivers. Net Each..........30c

DI-HEPTAL SOCKET No. 9709-6 (FIG. W)

Black bakelite 14-pin CRT socket for use with 3BP1, 5CP1, 7JP4 and similar tubes. Complete with contacts and back plate. Top diameter 2 7/32", overall depth, 47/64". Net Each......... 60c

No. 9707-7—Same as above, but mica-filled. Net Each.....72c

DUO-DECAL (HALF) SOCKET No. 9719 (FIG. X)

5-contact, 18" leads, rear plate completely covers connections. Leads emerge from slots in sides. Net Each......... 42c

LAMINATED DUO-DECAL SOCKET No. 49-12DD (FIG. Y)

Plastic cover for complete insulation. Pins No. 1, 2, 10, 11 and 12 wired. Use with standard CRT's. Net Each....... 42c

No. 49-13DD—Wired for electro-static tubes also. Net.....48c

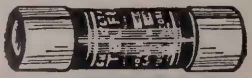
COLOR TV CRT SOCKET No. COL-1 (FIG. Z)

For new type color multi-gun TV CRT. Unwired, with back-mounting plate and contacts. Net Each........... $2 10

Littelfuse Fuses and Mountings

TYPE 3AG AND 3AB 250 VOLT LITTELFUSES

Series 312000—3AG, quick acting, low time lag. Metal cap. Diagonal element for accurate alignment calibration. 1¼ x ¼". Shpg. Wt. 100, 1½ lbs. U/L approved.



Series 314000—Smallest U/L approved fuses. Bakelite enclosed, arc-quenching powder filled fuses. Medium time lag. *125-volt type.

L. F. No.	Amp.	5 For	100 For	L. F. No.	Amp.	5 For	100 For
312.062	1/16	51c	$8.50	312004	4	30c	$5.00
312.125	1/8	48c	8.00	312005	5		
312.150	15/100	45c	$7.50	312006	6		
312.175	.175			312008*	8	45c	$7.50
312.187	3/16			314001	1		
312.250	1/4			314002	2		
312.300	3/10			314003	3		
312.375	3/8			314005	5		
312.500	1/2			314008	8		
312.750	3/4			314010	8		
312001	1	24c	$4.00	314012	12		
31201.5	1½			314015	15		
312002	2			314020	20		
312003	3			314030	30		

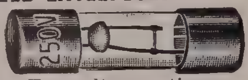
TYPE 3AG 125 VOLT SLO-BLO LITTELFUSES

Series 313000—Slo-Blo fuses with high time lag for circuits with equipment having high inductive or capacitative surges, heavy starting currents and intermittent-duty circuits. Anti-fatigue construction, compound element with spring and resistor.

L. F. No.	Amp.	5 For	100 For	L. F. No.	Amp.	5 For	100 For
313.010	1/100	99c	$16.50	313.800	8/10	81c	$13.50
313.032	1/32			313001	1		
313.062	1/16	81c	$13.50	3131.25	1¼	60c	$10.00
313.100	1/10			31301.5	1½		
313.125	1/8			31301.6	1-6/10		
313.150	15/100			313002	2		
313.175	.175			31302.5	2½		
313.187	3/16			31300	3		
313.200	2/10			31303.2	3-2/10		
313.250	1/4			313004†	4		
313.300	3/10			313005†	5		
313.375	3/8			3136.25#	6¼		
313.400	4/10			313008#	8		
313.500	1/2			313010#	10		
313.600	6/10			313015#	15		
313.750	3/4			313020#	20		

†125 volt ratings. #32 volt ratings.

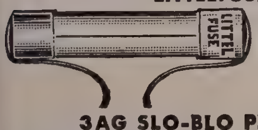
8AG INSTRUMENT HIGH SPEED LITTELFUSES



Locked Cap Assembly for protection of delicate test equipment. Glass-enclosed; 1" x ¼" dia., accurately rated, high speed action, short time lag. For voltage ratings up to 250 v. AC or DC. For higher voltages use fuses in series **361005**, 32 volt type. Shipping Weight, package of 100, 12 oz.

L.F.No.	Amp.	5 For	100 For	L.F.No.	Amp.	5 For	100 For
361.002	1/500	$3.60	$60.00	361.500	½	54c	$9.00
361.005	1/200	1.38	23.00	361.750	¾		
361.010	1/100	1.20	20.00	361001	1	30c	$5.00
361.031	1/32	1.14	19.00	36101.5	1½		
361.062	1/16	.75	12.50	361002	2		
361.125	1/8	54c	$9.00	361003	3		
361.250	1/4			361005	5#		
361.375	3/8			361020	20		

LITTELFUSE TELEVISION FUSES



The same types as used by original set manufacturers. Pigtail types have 1½" tinned wire leads and solder into circuit where space is limited. Size 1¼ x ¼". U/L approved except 310131, 315004 and 315005.

3AG SLO-BLO PIGTAIL FUSES—(125 VOLT)

L. F. No.	Amp.	5 For	100 For	L.F. No.	Amp.	5 For	100 For
315.010	1/100	1.35	22.50	315.800	8/10	1.02	17.00
315.032	1/32			315001	1	1.02	17.00
315.062	1/16	1.02	17.00	3151.25	1 1/4	96c	16.00
315.100	1/10			31501.5	1 1/2		
315.150	15/100			31501.6	1 6/10		
315.200	2/10			315002	2		
315.250	1/4			315003	3	90c	15.00
315.300	3/10			31502.5	2 1/2		
315.400	4/10			31503.2	3 2/10		
315.500	1/2			315004	4		
315.600	6/10			315005	5		

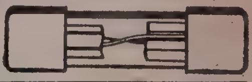
3AG PIGTAIL FUSES—(250 VOLT)

318.062	1/16	75c	12.50	31801.5	1 1/2	45c	$7.50
318.125	1/8	69c	11.50	318002	2		
318.250	1/4	60c	10.00	318003	3		
318.375	3/8			318004	4	48c	$8.00
318.500	1/2			318005	5		
318.750	3/4			318006	6		
318001	1	45c	$7.50				

8AG U/L FUSES—(250 VOLT)

362.125	1/8	48c	8.00	362001	1	24c	$4.00
362.250	1/4	45c	$7.50	36201.5	1 1/2		
362.375	3/8			362002	2		
362.500	1/2			362003	3		
362.750	3/4			362005	5	15c	$2.50

TYPE 4AG AIRCRAFT FUSES

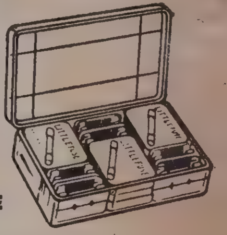


Series 411000—4AG fuses withstand vibrations, shocks and repeated off-and-on demands encountered in aircraft operation. Medium to slow fuses. Overall size: 1¼" long x ¼" diameter.

L.F. No.	Amp.	5 For	100 For	L.F. No.	Amp.	5 For	100 For
411010	10	42c	$7.00	411030	30	42c	$7.00
411015	15			411035	35	45c	7.50
411020	20			....	......	....	....
411025	25			....	......	....	....

§Not U/L Approved. #32 volt ratings.

TYPE 094029 ONE-CALL TV KIT



Contents include fuses used by the TV serviceman. Hinged, clear plastic box contains: 5-3AG 5 amp; 10-3AG ¼ amp; 5-3AG ½ amp; 10-3AG ¼ amp slo-blo; 5-3AG ½ amp slo-blo; 5-3AG 5 amp slo-blo; 5-8AG ¼ amp U/L; 6-TV snap-on fuse mountings.

Type 094029—Serviceman's kit. Net Each.................... $6.37

TYPE 094024 SNAP-ON FUSE HOLDER

For fast and safe replacement of TV pigtail fuses. Just snap replacement fuse in holder and snap other side of holder on the burned out pigtail fuse in the set. No soldering or pigtail cutting is required. Less fuses.

Type 094024—Snap-On Fuse Holder. Card of 24 holders. Net Price........ $4.32

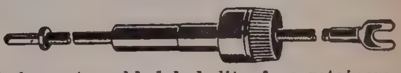
Type 094025—Snap-On Fuse Holder. Box of 10. Net Price................ $1.80

LITTELFUSE STANDARD FUSE CLIPS

Fuse clips listed below are standard, available in three types, with ears or fuse stops as illustrated, without ears, or with lug or solder terminal. All three are available in beryllium copper with silver plating or in phosphor bronze with nickel plating.

Fuse Adaptation	Type	Beryllium-Copper		Phosphor-Bronze	
		No.	10 for	No.	10 for
SFE, 3AG, 8AG	Ears	121001	$0.36	101001	$0.12
SFE, 3AG & AB, 8AG	Earless	121002	.36	101002	.12
SFE, 3AG & AB, 8AG	Terminal	121004	.48	101003	.18
4AG, 4AB	Ears	123001	.48	103001	.30
4AG, 4AB	Earless	123002	.48	104002	.24
4AG 4AB	Terminal	123004	.72	103003	.30
5AC Hi-Volt, Midget	Ears	125001	.90	105001	.30
5AC, Hi-Volt, Midget	Earless	125002	.90	105002	.30
5AG, Midget	Terminal	125004	1.20	105003	.48
N.E.C.-30	Ears	127001	1.08	107001	.42
N.E.C.-30	Earless	127002	1.08	107002	.42
Std. Hi Voltage	Ears	129001	2.40	109001	.96
Std. Hi Voltage	Earless	129002	2.40	109002	.96

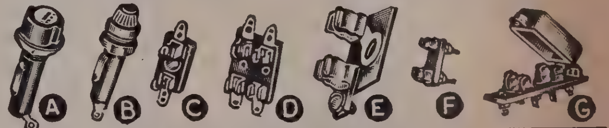
155000 SERIES IN-LINE FUSE RETAINER



Sturdy high impact molded bakelite fuse retainers designed to hang in the cable or mount in the chassis. Intended for low voltage applications as in car radios, heaters, spot-lights, clocks, etc. Circuit breaks when knob is removed for safe examination of fuses. With 19-inch leads. Other leads available on request.

155004—For 4-amp. SFE & 1AG
155006—For 6-amp. SFE
155009—For 9-amp. SFE & 7AG
155014—For 14-amp. SFE & 8AG
155020—For 20-amp. SFE & 3AG fuses—Net Each...... 27c

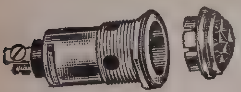
LITTELFUSE MOUNTINGS—EXTRACTOR POSTS



L. F. No.	Fig.	Fits Fuse Type	Description	Net Each
341001	A	3AG-3AB	Screw. Slot—Panel Mount	$0.28
342001	B	3AG-3AB	Finger Knob—Pan. Mount	.28
342003	......	3AG	Miniature—Panel Mount	.28
342006	......	3AG	Watertight—Panel Mount	1.41
342008	......	3AG	Dust-proof—Panel Mount	.32
371001	A	8AG	Screw. Slot—Panel Mount	.28
372001	B	8AG	Finger Knob—Pan. Mount	.28
356001	C	3AG-3AB	Single Fuse—Screw Term.	.24
357001	C	3AG-3AB	Single Fuse—Solder Term.	.10
356002	D	2-3AG or 3AB	Double Fuse—Screw Term.	.48
357002	D	2-3AG or 3AB	Double Fuse—Sold Term.	.20
387001	C	8AG	Single Fuse—Solder Term.	.10
387002	D	2-8AG	Double Fuse—Sold. Term.	.20
383002	E	8AG	Single Fuse—Meter Back	.21
353001	F	3AG-3AB	Single Fuse—Panel Mount	.36
383001	F	8AG	Single Fuse—Panel Mount	.36
351009	G	2-3AG or 3AB	Dble. Fuse—Hinged Cover	.66
442006	......	4AG	Watertight—Panel Mount	1.41
571004	......	5AG	Watertight—Panel Mount	1.02

Johnson Quality Pilot Lights

ONE-INCH ENCLOSED
FOR 105-125 VOLTS



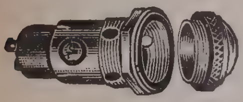
U/L Approved, highest quality assembly for 115 v. S6 candelabra screw bulb. Chrome plated friction-fit jewel holder allows instant access to bulb from front panel. Has solder terminals; mounts in 1" hole. **Jewel colors:** red, green, amber, blue, white, clear. **Specify Color.**

No. 147-1000—Faceted jewel. Net **$1.02**
No. 147-1001—Smooth jewel. Net. **1.02**

Similar to above, except with screw terminals.

No. 147-1032—Faceted jewel. Net **$1.25**
No. 147-1033—Smooth jewel. Net. **1.25**

THREADED JEWEL TYPE
FOR S6 CANDELABRA BULB

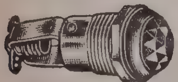


U/L Approved, chrome plated jewel assembly screws out for access to bulb from front of panel. Solder terminals. **Jewel colors:** red, green, amber, blue, white, red.

Specify jewel color.

No. 147-1200—Faceted jewel. Net **$1.26**
No. 147-1201—Smooth jewel. Net. **1.26**

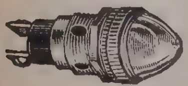
ECONOMY ONE-INCH
REMOVABLE SOCKET



Low cost U/L Approved unit. Socket detaches from panel bushing to allow removing front panel without disconnecting hook-up wires. Chrome plated friction fit jewel. Takes S6 candelabra screw bulb. Requires 1" mounting hole. **Jewel colors:** red, green, amber, white, clear. **Specify jewel color.**

No. 147-802—Faceted jewel. Net.... **71c**
No. 147-803—Smooth jewel. Net.... **71c**

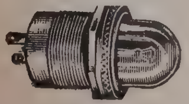
WIDE ANGLE "BEEHIVE"



U/L Approved. Takes 115 volts, S6 candelabra screw bulb. Extremely wide visibility. Glass jewel diffuses light. Chrome plate bezel. Mounts in 1" hole. **Jewel colors:** red, green, amber, blue, white, clear. **Specify jewel color.**

No. 147-1600—"Beehive". Ne Ea. **$1.54**

WIDE ANGLE LUCITE



U/L Approved. Designed for T4½ candelabra base neon bulb. Lucite lens, mounted on threaded, chrome plated bezel, is "pebbled" inside for maximum light diffusion. Mounts in 1" hole. **Lens colors:** red, amber, white or clear. **Specify lens color.**

No. 147-1217—Candelabra base.
Net Each.................... **$1.43**

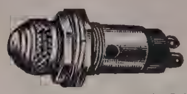
As above, except has **miniature bayonet** socket for lower power incandescent or T3¼ neon bulbs.

No. 147-1218—Min. Bayonet. Net **$1.10**

As above, except has double contact bayonet socket and integral 30,000 ohm resistor for NE-48.

No. 147-1200—Bayonet base. Net **$1.26**

HALF-INCH ENCLOSED



Available in two sizes for T3¼ miniature bayonet or G3½ miniature screw bulbs. Removable threaded jewel allows changing bulb from front panel. **Jewel colors:** amber, red, green, blue, white clear. **Specify jewel color.**

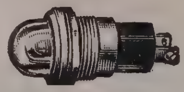
MINIATURE BAYONET

No. 147-1110—Faceted jewel. Net... **76c**
No. 147-1111—Smooth jewel. Net... **76c**

MINIATURE SCREW

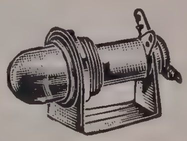
No. 147-1112—Faceted jewel. Net... **76c**
No. 147-1113—Smooth jewel. Net... **76c**

⅝" ENCLOSED-LUCITE LENS



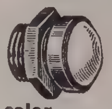
For T3¼ miniature bayonet bulb. Wide visibility from low powered light source. Mounting hole, 11/16". **Lens colors:** red, amber, clear. **Specify lens color.**
No. 147-1142—For 47, 49 or 1490 bulb. Net Each......................... **68c**
No. 147-1143—For NE-51 bulb. Contains built-in 200,000 ohm resistor. Net... **89c**

⅝" OPEN-LUCITE LENS



Low cost wide angle type for T3¼ miniature bayonet bulb. Requires 11/16" mounting hole.
No. 147-406—For 47, 49 or 1490 bulb. Net Each......................... **42c**
No. 147-407—For NE-51 bulb. Contains built-in 200,000 ohm resistor. Net... **66c**

JEWEL ASSEMBLIES



One-Inch Jewel assembly includes friction-fit jewel, panel bushing, fiber washer and nut. Mounts in 1" hole. **Jewel colors:** red, green, amber, blue, white, clear. **Specify jewel color.**

No. 147-110—Faceted jewel. Net.... **43c**
No. 147-111—Smooth jewel. Net.... **43c**

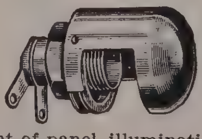
Half-Inch Jewel Assembly, nickel plated bezel and mounting nut. Mounts in 7/16" hole. **Jewel colors:** red, green, amber, blue, white, clear. **Specify color.**

No. 147-310—Faceted jewel. Net.... **18c**
No. 147-311—Smooth jewel. Net.... **18c**

⅜" **Miniature Jewel** for compact equipment. Requires 9/32" hole. Mounting nut furnished. **Jewel colors:** red, green, amber, blue, white, clear. **Specify color.**

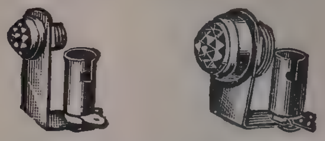
No. 147-510—Faceted jewel. Net.... **13c**
No. 147-511—Smooth jewel. Net.... **13c**

PANEL LIGHT



For front-of-panel illumination. Polished nickel-plated hood is easily removable for lamp replacement; can be rotated to any position. Fits ½" mounting hole. Two models, for T3¼ or G3½ bulbs.
No. 147-329—Miniature bayonet base. Net Each...................... **90c**
No. 147-330—Miniature screw base. Net Each...................... **75c**

VERTICAL OPEN TYPES



HALF-INCH VERTICAL OPEN

Assembly nickel plated, Fits 7/16" mounting hole. **Jewels available:** red, clear, green, amber, blue, white. **Specify jewel color.**

Miniature Screw Base
No. 147-300—Faceted jewel. Net.... **30c**
No. 147-301—Smooth jewel. Net Ea. **30c**

Miniature Bayonet Base
No. 147-306—Faceted jewel. Net.... **33c**
No. 147-307—Smooth jewel. Net Ea. **33c**

⅜" MINIATURE VERTICAL BASE

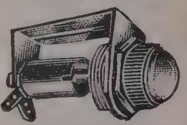
Very compact assembly with miniature jewel. Requires 9/32" mounting hole. **Jewel colors:** red, green, amber, blue, white, clear. **Specify jewel color.**

Miniature Screw Base
No. 147-500—Faceted jewel. Net Ea. **25c**
No. 147-501—Smooth jewel. Net Ea. **25c**

Miniature Bayonet Base
No. 147-503—Faceted jewel. Net.... **28c**
No. 147-504—Smooth jewel. Net Ea. **28c**

HORIZONTAL OPEN TYPES

ONE-INCH HORIZONTAL OPEN



Economical type fits one-inch hole. Chrome plated jewel removable from front panel for access to bulb. Available for miniature screw, candelabra screw or miniature bayonet bulbs. **Jewel colors:** red, green, amber, blue, white, clear. **Specify jewel color.**

Miniature Screw Base
No. 147-100—Faceted jewel. Net.... **60c**
No. 147-101—Smooth jewel. Net Ea. **60c**

Candelabra Screw Base
No. 147-103—Faceted jewel. Net.... **61c**
No. 147-104—Smooth jewel. Net Ea. **61c**

Miniature Bayonet Base
No. 147-106—Faceted jewel. Net.... **63c**
No. 147-107—Smooth jewel. Net Ea. **63c**

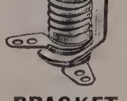
HALF-INCH OPEN

Nickel plated jewel holder and bracket. Jewel removable from front panel. **Colors:** red, green, amber, blue, white, clear. **Specify jewel color.**

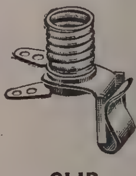
Miniature Screw Type
No. 147-400—Faceted jewel. Net.... **47c**
No. 147-401—Smooth jewel. Net Ea. **47c**

Miniature Bayonet Type
No. 147-403—Faceted jewel. Net.... **50c**
No. 147-404—Smooth jewel. Net Ea. **50c**

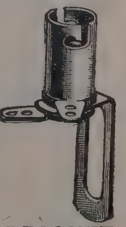
BRACKETS



BRACKET UP



CLIP BRACKET DOWN



BRACKET DOWN

Both terminals insulated on all types. Metal parts heavily nickel plated. Terminals tin plated for easy soldering.

Miniature Screw Base
No. 147-600—Bracket down. Net Ea. **10c**
No. 147-601—Bracket up. Net Each. **10c**
No. 147-640—Clip bracket down. Net **12c**
No. 147-641—Clip bracket up. Net.. **12c**

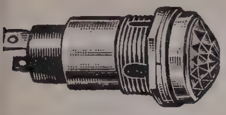
Miniature Bayonet Base
No. 147-610—Bracket down. Net Ea. **12c**
No. 147-611—Bracket up. Net Each. **12c**
No. 147-630—Clip bracket down. Net **14c**
No. 147-631—Clip bracket up. Net.. **14c**

Candelabra Screw Base
No. 147-620—Bracket down. Net Ea. **11c**
No. 147-621—Bracket up. Net Each. **11c**

Dialco-Signico Pilot Light Assemblies

UL APPROVED
ENCLOSED ASSEMBLIES

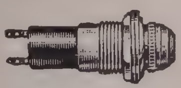
DIALCO ONE-INCH SERIES 31101



This series is designed for incandescent lamps. 115 volt assembly. Black bakelite and chrome plated brass. Sockets are well insulated and securely locked into the mounting bushings. The sockets are adapted for soldered connections, but have threaded holes and binding screws may be supplied. All assemblies are equipped with nut and lockwasher for securing to the panel. The thread length is sufficient for most panel thicknesses and longer bushings for thicker panels will be supplied when specially ordered. A 1-inch hole is required for mounting these assemblies. Bulb removable from front of assembly. Bulb not supplied. Shipping weight 5 oz.

Dialco No. 31101-431—Red...... **Net**
Dialco No. 31101-432—Green.... **Each**
Dialco No. 31101-433—Amber.... **$1.05**
Dialco No. 31101-437—Clear.....

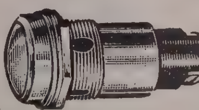
DIALCO HALF-INCH SERIES 81410



The pilot lights of this group are especially designed for miniature low voltage incandescent lamps. These assemblies are unusually compact and very solidly constructed. They mount in an 11/16″ clearance hole in the panel. They may be ordered with either soldering terminals or binding screws for securing the wire connections. Minimum spacing center to center—1″. Aviation type signal assembly. Smooth-faced jewel in ½″ nickel-plated brass holder. Uses bayonet base lamp, which is replaceable from the front of the assembly. Length 2¼″. For panels up to ⅜″ thick. U. L. approved. Shipping weight 3 oz. Less bulb.

Dialco No. 81410-111—Red...... **Net**
Dialco No. 81410-112—Green.... **Each**
Dialco No. 81410-113—Amber.... **82c**
Dialco No. 81410-135—White....

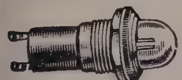
DIALCO NEON SERIES 31914



This series is designed for use with screw base neon lamps in 115 volt circuit. The metal lens holder is a push fit into the mounting bushing and is securely held by friction. Metal parts finished in chrome. Socket terminals equipped with binding screws to secure connecting wires. All assemblies equipped with nut and lockwasher for mounting. The thread length is sufficient to accommodate most panel thicknesses and longer bushings will be supplied when specially ordered. Effective cap lens diameter is 1″. A one inch clearance hole will be required for mounting these assemblies. Lamp removable from front of assembly. Less bulb. Shipping weight, 4 oz.

Dialco No. 31914-111—Red...... **Net**
Dialco No. 31914-113—Amber.... **Each**
Dialco No. 31914-135—Opal..... **$1.05**
Dialco No. 31914-117—Clear.....

DIALCO NEON SERIES 95408

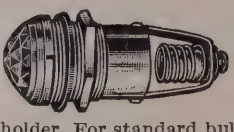


This unit designed for miniature bayonet type neon lamp, 110 and 220 volt operation. Contains a built-in resistor as an integral part of the sprung center socket contact member. Resistor element sealed in bakelite and remains stable in value. Resistor size: 50,000 ohms, ½ watt. Specify for nominal circuit voltages either 125 volts or 250 volts. Socket is constructed with heavy molded bakelite insulation in which terminals are securely anchored. Mounted in a threaded bushing equipped with nut and shakeproof washer for mounting on a panel of any usual thickness. Overall length 2¼″. Requires 11/16″ mounting hole. Bulb not supplied. Shipping weight 3 oz. The voltage range at which lamps will be required to operate should always be stated.

Dialco No. 95408-931—Red...... **Net**
Dialco No. 95408-933—Amber.... **Each**
Dialco No. 95408-935—Opal...... **97c**
Dialco No. 95408-937—Clear.....

OPEN ASSEMBLIES

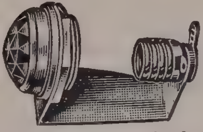
DIALCO ONE-INCH SERIES 75
DETACHABLE LAMP SOCKET



Candelabra base, 115 volt pilot light assembly with faceted jewel in highly polished chrome plated brass holder. For standard bulbs. Requires hole of 1-inch diameter for mounting. Easily adjusted to panel thickness. Less bulb. Shipping weight 5 oz.

Dialco No. 75C-431—Red...... **Net Ea.**
Dialco No. 75C-432—Green.....
Dialco No. 75C-433—Amber..... **85c**

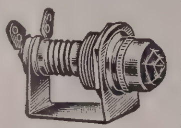
DIALCO SERIES 95
ONE-INCH REMOVABLE JEWEL



Candelabra base, 115 volt pilot light assembly with faceted jewel in highly polished chrome plated brass holder. For standard bulbs. Requires 1″ mounting hole. Solder terminals. Easily adjusted to panel. Secured to panel by separate bushings into which the lens holders are a friction fit, permitting removal for lamp replacement.

Dialco No. 31-18-16-431—Red.. **Net Ea.**
Dialco No. 31-18-16-432—Green..
Dialco No. 31-18-16-433—Amber. **86c**

DIALCO SERIES 810
HALF-INCH REMOVABLE JEWEL



For operation with low volt, miniature bayonet and miniature screw base. Incandescent lamps. Burnished nickel finish. Requires 11/16 in. mounting hole. Either convex or faceted lens will be supplied. Solder terminals. Effective lens diameter ½″. All brackets are insulated from the live terminals. Unit secured by separate bushings from which caps may be removed easily for access to the lamps. Less bulb.

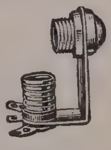
MINIATURE BAYONET BASE

Dialco No. 810B-431—Red...... **Net Ea.**
Dialco No. 810B-432—Green .....
Dialco No. 810B-433—Amber..... **37c**

MINIATURE SCREW BASE

Dialco No. 810M-431—Red ..... **Net Ea.**
Dialco No. 810M-432—Green.....
Dialco No. 810M-433—Amber..... **37c**

DIALCO SERIES 510-710
ANGLE BRACKET ASSEMBLY



Economical space saver. For low volt operation of incandescent miniature lamps. With solder terminals. White nickel finish. Mounting hole 7/16″ diameter. Effective lens diameter ½″. Angle bracket units are secured to the panel by the threaded shank of the lens holder and lamps are accessible only from back of panel. Convex lens. Less bulb.

SERIES 510 MINIATURE SCREW

Dialco No. 510-121—Red....... **Net Ea.**
Dialco No. 510-122—Green.......
Dialco No. 510-123—Amber...... **24c**

SERIES 710
MINIATURE BAYONET

Dialco No. 710-121—Red....... **Net Ea.**
Dialco No. 710-122—Green......
Dialco No. 710-123—Amber...... **24c**

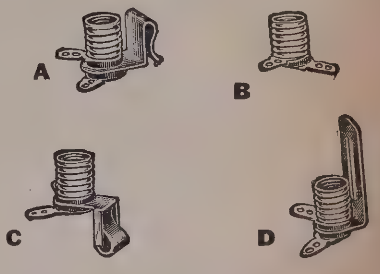
The assemblies listed on this page are only a few of the more popular types. Dialco manufactures every type of assembly for any purpose and we can supply the complete line. Write for information on any types not listed.

LENSES IN THREADED HOLDERS FOR PANEL MOUNTING

For use with separately mounted lamp sockets. All-purpose smooth jewels in polished nickel-plated brass holders for up to ⅜″ panels. ¾″, ½″ and 11/32″ diameters—requiring 11/16″, 7/16″ and 9/32″ holes, respectively, for mounting. Shipping weight 2 oz.

Size In.	Dialco No.			Net Ea.
	Red	Green	Amber	
¾″	25006–111	25006–112	25006–113	39c
½″	10006–621	10006–622	10006–623	14c
11/32″	5006–621	5006–622	5006–623	20c

BRACKET MOUNTED SOCKETS



Cadmium plated brackets with tinned brass lugs. Bayonet type furnished with coil spring construction for positive contact. Highest grade insulated washers. Available for miniature screw or bayonet types and for candelabra base. Average shipping weight 2 oz.

MINIATURE SCREW TYPE

Dialco No.	Type Fig.	Net Each	10 For	100 For
501 507 504 505	A B C D	7c	65c	$5.75

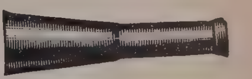
MINIATURE BAYONET TYPE

Dialco No.	Type Fig.	Net Each	10 For	100 For
701 707 704 705	A B C D	9c	74c	$6.60

CANDELABRA TYPE, 115 VOLT

Dialco No.	Type Fig.	Net Each	10 For	100 For
601 607 604 605	A B C D	12c	$1.00	$9.10

PILOT BULB REMOVER



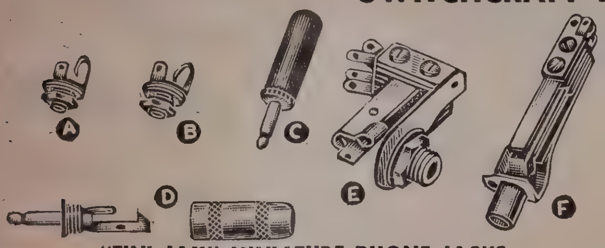
For fast and simple removal and installation of miniature and candelabra lamps. Facilitates mass production, indispensible for hard-to-reach places. Will not damage lamps. Made of high-grade rubber. Shipping weight 2 oz.

Dialco No. L-73—Net Each...... **26c**

You will find the complete listing of bulbs and lamps to fit these assemblies on another page of this catalog. See Index.

Jacks, Plugs and Switches

SWITCHCRAFT PLUGS AND JACKS



"TINI-JAX" MINIATURE PHONE JACKS

Subminiature phone jacks with notched insulating washers that interlock mechanically with the springs and solder lugs, preventing shorts. Mount in ¼" hole in ⅛" thick panels.

Model 41 (**Fig. A**)—2-conductor, open circuit. Net Each... **24c**

Model 42A (**Fig. B**)—2-conductor, closed circuit. Net Each.. **27c**

"TINI-PLUGS"

For use with "Tini-Jax" on up to 3/16" O.D. cable. Terminals and body mechanically interlocked. One-piece tip rod staked into mating terminal; no disassembly of tip during use. Black or Red Tenite Handles (**Fig. C**) or Nickel-plated Brass, shielded (**Fig. D**).

Model 740—Black Tenite Handle, Screw Terminals. Net Ea. **45c**

Model 745—Red Tenite Handle, Screw Terminals. Net Each **45c**

Model 750—Black Tenite Handle, Clamp Lugs. Net Each.. **42c**

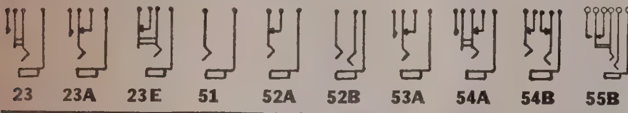
Model 755—Red Tenite Handle, Clamp Lugs. Net Each.... **42c**

Model 770—Shielded Handle, Screw Terminals. Net Each.. **63c**

Model 775—Shielded Handle, Clamp Lugs. Net Each...... **60c**

"SF-JAX"

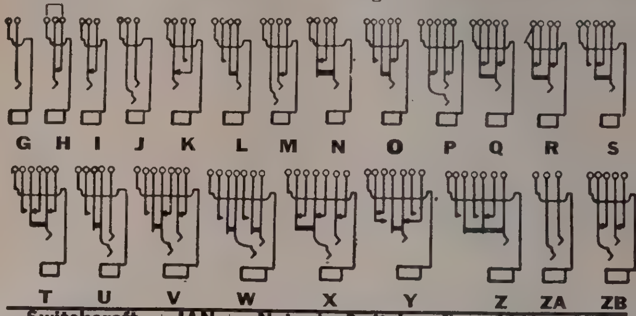
JAN Types. Springs are long, without "forms" at point of flexing. Tubing is assembled throughout entire stack and frame, insuring tight assembly. Requires minimum of panel depth. Series C20 has solder lugs parallel to mounting surface. Series C50 lugs are almost perpendicular to mounting surface (**Fig. E**).



Model No.	JAN No.	Net Each	Model No.	JAN No.	Net Each
C23	JJ-099	$0.72	C52B	JJ-103	$0.72
C23A	JJ-098	.72	C53A	JJ-092	.93
C23E	JJ-102	.72	C54A	JJ-093	.96
C51	JJ-096	.72	C54B	JJ-101	.96
C52A	JJ-097	.72	C55B	JJ-095	1.11

"MT-JAX"—TELEPHONE SWITCHBOARD JACKS

(**Fig. F**): Long frame type telephone switchboard jack. Zinc plated steel frame, press welded for rigidity and dimensional stability. Meets the Armed Services frame strength test. Available in two frame designs: "C"—mounting hole on top; "A"—mounting hole on size. Add letter to Part No. for frame desired. **Tempered Nickel Silver Springs**, with hot tinned lugs, insure maximum spring life and corrosion resistance. Welded cross-bar palladium contacts in all switching circuits. Special contacts available on special order. Only the most common circuits are listed here. More complex circuits are available on special order. **Insulation:** Type XXXP paper base Phenolic spacers; paper base Phenolic tubing through stack. **Nickel Plated Brass Bushing.** Specify plugs to be used when ordering.



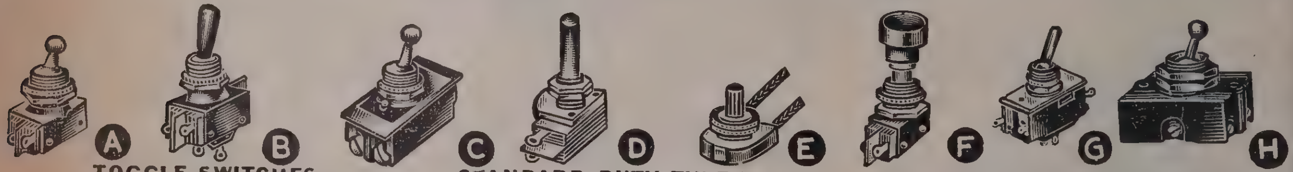
Switchcraft No.	Circuit	JAN No.	Net Each	Switchcraft No.	Circuit	JAN No.	Net Each
MT-331	(G)	JJ-086	$0.90	MT-334E	(R)	JJ-085	$1.20
MT-332	(H)	....	1.02	MT-334F	(S)	JJ-035	1.20
MT-332A	(I)	JJ-024	1.02	MT-335	(T)	....	1.35
MT-332B	(J)	JJ-022	1.02	MT-336	(U)	JJ-074	1.35
MT-332C	(K)	....	1.17	MT-336A	(V)	JJ-075	1.65
MT-333	(L)	JJ-084	1.17	MT-336B	(W)	JJ-077	1.65
MT-333B	(M)	....	1.17	MT-336C	(X)	JJ-073	1.65
MT-333E	(N)	....	1.17	MT-336E	(Y)	....	1.65
MT-334A	(O)	....	1.20	MT-337	(Z)	JJ-087	1.65
MT-334B	(P)	JJ-042	1.20	MT-342B	(ZA)	....	1.17
MT-334C	(Q)	JJ-072	1.20	MT-344B	(ZB)	....	1.35

STEEL JACK COVERS

Series 500 for ⅜"-32 threaded jacks. Series 600 for tip jacks.

No. 510—Olive Drab. Ea.. **63c**	**No. 610**—Olive Drab. Ea.. **45c**
No. 515—Black. Each.... **63c**	**No. 615**—Black. Each.... **45c**
No. 520—Navy Gray. Ea. **63c**	**No. 620**—Navy Gray. Ea. **45c**

HART AND HEGEMAN SWITCHES



TOGGLE SWITCHES

High quality, U/L approved. Bakelite insulation, silver plated lug terminals. Shank 15/32" diameter. With mounting nuts. Weight each, 2 oz. SPST rated at 3 amps., 250 volts. All other switches listed are rated at 3 a., 125 v., or 1 a. at 250.

H & H No.	Poles	Fig.	Net 1-24	Net 25-99
20992-A	SPST	A*	37c	33c
21518-B	SPST	A**	45c	40c
21615-BD	SPST	A†	47c	42c
21350-BF	SPDT	A*	47c	42c
80023-B	SPDT	A**	57c	51c
21661-B	SPDT	A†	57c	51c
20902-DN	DPST	A*	72c	65c
20902-AZ	DPST	A**	75c	68c
20902-Q	DPST	A†	77c	69c
20905-BX	DPDT	A*	77c	69c
20905-BT	DPDT	A**	85c	77c
20905-C	DPDT	A†	87c	79c
20992-FN	SPST	B*	37c	33c
21350-BP	SPDT	B*	52c	47c
20902-DN	DPST	B*	72c	65c
20905-GA	DPDT	B*	82c	74c

Shank Length (*) 15/32", (**) ¾". (†) 1".

ON-OFF SWITCH PLATES

(**Not Ill.**) Die-cast metal, statuary bronze finish ON-OFF plate. ½" center hole for switches with 15/32" shank.

H & H No. 20590-1—25 or more, Net Each, **3c.** Net Each............ **4c**

(**Not Ill.**) Polished aluminum for use with rotary or toggle switches. ½" center hole, 1⅛" diameter.

H & H No. 20590-2—10 for **$1.48.** Net Each.............. **16c**

MOMENTARY TOGGLE—FIG. G

Same ratings and dimensions as above.

H & H No.	Poles	Net 1-24	Net 25-99
81045-FB	SPST	$0.70	$0.64
81057-F	DPDT	1.17	1.16

STANDARD DUTY TYPE TOGGLE SWITCHES

Rated 12 amps., 125 volts; 6 amps., 250 volts. Bakelite case, screw terminals. Shank 15/32" diameter, 5/16" long. With nuts.

H & H No.	Poles	Fig.	Net 1-24	Net 25-99
80607	SPST	C	82c	73c
80600	DPST	C	82c	73c

NEUTRAL CENTER TOGGLE—FIG. G

All bakelite body, bat handle; lug terminals, 15/32" diam. mtg. shank. Takes 3 amps. at 250 volts; 6 amps. at 125 volts; 13/32" stem length. U/L Listed, DPDT, **H&H No. 82024-D,** 1-24, Net, **95c** 25-99, Net **84c**

HEAVY-DUTY NEUTRAL CENTER TOGGLE SWITCHES—FIG. H

Screw terminals, 5 amps., 250 volts; 10 amps., 125 volts. ¾" dia. mtg. shank, 31/64" stem length.

H & H No.	Poles	Net 1-24	Net 25-99
80638	DPDT	$2.43	$2.18
80985	4PDT	4.92	4.43

MOMENTARY PUSH-BUTTON—FIG. F

Laminated bakelite insulation, quick-make, quick-break. Shank lgth., 9/16", dia., 15/32". Lug terminals. Red or black button, specify color. 3392AE is 2-circuit type, slow make, slow break.

H & H No.	Poles	Amps.	Volts	Net 1-24	Net 25-99
3592	SPST	3	250	$0.91	$0.82
3595C	SPDT	1	250	1.02	.92
3594Q	DPST	1	250	1.21	1.09
3599G	DPDT	1	250	1.33	1.20
3392AE	SP2	1	125	.68	.62

ROTARY SWITCHES—FIG. D

1 amp., 250 volts; 3 amps., 125 volts. Stem, 1⅛" long, ¼" dia. Shank lgth. ⅜", 11/32" dia. U/L Listed. SPST rated 3 amps., 250 volts.

H & H No.	Poles	Net 1-24	Net 25-99
1561-BS	SPST	46c	42c
1565-BH	SPDT	56c	51c
1572-AR	DPST	76c	68c
1575-AG	DPDT	86c	77c

CANOPY SWITCH—FIG. E

Precision rotary switch. 3 amps., 125 volts; 1 amp., 250 volts, U/L Approved. Bakelite base, threaded shank, ⅜" dia., 7/32" long. Fluted shaft, 3/16" dia., 5/16" long. Complete with mounting nuts. **H&H No. 7776**—1-24 Net **24c.** 25-99 Net......... **20c**

DOUBLE ACTION PUSH-BUTTON SWITCHES—FIG. F

Plunger-type SPST, rated 6 amps., 125 volts; 3 amps., 250 volts. Threaded shank 15/32" dia., 9/16" long. With mounting nuts. 86710-C comes with either red or black button. Specify color.

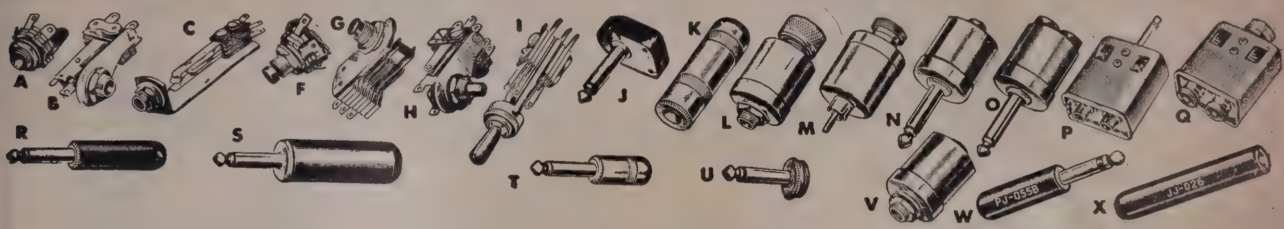
H & H No.	Poles	Fig.	Net 1-24	Net 25-99
86710	SPST	F	$0.76	68c
86710-C	SPST	F	.90	81c

INTERMEDIATE TYPE BAT HANDLE TOGGLE—FIG. G

All-bakelite body, lug terminals. 15/32" dia. mtg. shank. 3 amps., 250 volts; 6 amps., 125 volts. 15/32" stem. U/L Listed.

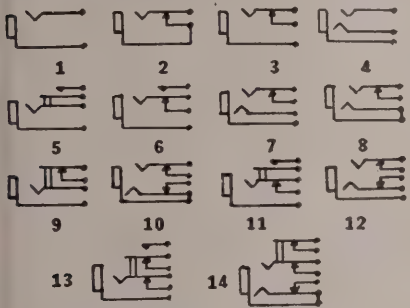
H & H No.	Poles	Net 1-24	Net 25-99
81015-K	SPST	48c	44c
81021-AT	SPDT	58c	53c
81024-KB	DPST	79c	71c
81027-CB	DPDT	89c	80c

SWITCHCRAFT INC. Electronic Components



PHONE JAX

"Littel-Jax" (Fig. A)—Notched washers hold springs and lugs; "V-bend" in tip spring holds mating plug; minimum space requirements. ⅜″ hole, panels to ⁵⁄₃₂″.
"SF-JAX" (Fig. B)—Short frame type, requires minimum panel depth; ⅜″ hole in panels to ³⁄₁₆″ thick.
"LF-JAX" (Fig. C)—Long frame type. 3″ deep, ⅜″ hole in panels up to ¼″ thick.



"LITTEL-JAX"		"SF-JAX"		"LF-JAX"		
No.	Net	No.	Net	No.	Net	Schem.
11	24c					
C-11	36c					
S-11	27c	21	33c	31	39c	1
		22	42c	32	51c	2
12A	27c					
C-12A	45c	22A	42c	32A	51c	3
12B	33c					
C-12B	42c					
S-12B	39c	22B	42c	32B	51c	4
		23	51c	33	57c	5
		23A	51c	33A	57c	6
13B	45c					
S-13B	57c	23B	51c	33B	57c	7
		23C	51c	33C	57c	8
		23E	51c	33E	57c	9
		24	57c	34	66c	10
		24A	57c	34A	66c	11
		24B	57c	34B	66c	12
		25	69c	35	75c	13
		26	75c	36	84c	14

*Military types.

"MINI-MIX"

Accommodates 2 hi-Z inputs. Separate gain controls for mixing recessed inside housing, located directly "in line" with inputs. Ideal for use with recorders, amplifiers, musical instruments, etc. Shielded, brown finished case, 2¹⁄₁₆″ x 1¹³⁄₁₆″ x 1¹⁄₁₆″. Nickel trim.

No. 310 (Fig. P)—Phone jack inputs with standard phone plug outputs. Net........................... **$4.77**

No. 320 (Fig. Q)—Mike connector inputs and output mating with standard mike connectors. Net Each....... **$4.77**

"LITTEL-PLUG" & "EXTENSION JAX"

Designed for industry and the Armed Forces. Molded construction. Jack (**Fig. X**) per JAN-J-641; Plugs (**Fig. W**) per JAN-P-642.

No.	Description	Handle	Net
440	2-cond., screw term. Type PJ-055B (PL-55)	Black	$0.84
445	Same, Type PJ-055R	Red	.84
470	2 cond., screw term. Type PJ-055M (PL-125)	Metal	1.20
480	3-cond., screw term. Type PJ-068 (PL-68)	Black	2.16
820	2-cond., screw term. Type JJ-026 (JK-26)	Black	1.20

P-1074-I—Strain relief clamp, nickel plated brass. Pkg. of 25, Net........**51c**

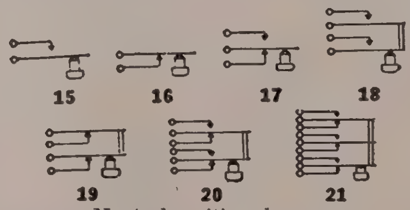
PHONE PLUGS

"Littel-Plug" (Fig. R)—New; fits standard jacks; clamp terminal, perfect for metal braid. Handles, 1⅝″ L., ½″ diam.
Standard Plug (Fig. S)—Conventional design, bakelite or metal handles, 2¹⁄₁₆″ L., ¹¹⁄₁₆″ OD, except 90 and 160, 1″ metal handles. Exterior metal, bright nickel.
"Lug Plug" (Fig. T)—2-conductor, solder term. Tenite handles, 1⅝″ L., ½″ OD except 380 with 1″ nickel plated handle.
Plug Adapter (Fig. U)—Use with 2501F for standard jacks.

No.	Fig.	Handle	Description	Net
240	R	Black	2-cond., screw	$0.45
245	R	Red	2-cond., screw	.45
270	R	Metal	2-cond., screw	.63
250	R	Black	2-cond., clamp	.42
255	R	Red	2-cond., clamp	.42
280	R	Metal	2-cond., clamp	.60
260	R	Black	3-cond., screw	.72
290	R	Metal	3-cond., screw	.84
267	R	Black	3-cond., clamp	.63
269	R	Red	3-cond., clamp	.63
297	R	Metal	3-cond., clamp	.78
40	S	Black	2-cond., screw	.42
70	S	Metal	2-cond., screw	.72
160	S	Metal	2-cond., screw	.54
44	U	....	2-cond., screw	.30
60	S	Black	3-cond., lug	.63
90	S	Metal	3-cond., lug	.78
350	T	Black	2-cond., lug	.33
355	T	Red	2-cond., lug	.33
380	T	Metal	2-cond., lug	.42
180	S	Metal	2-cond., screw	.63
288	R	Metal	2-cond., clamp	.63
S-250	R	Black	2-cond., clamp	.45
S-280	R	Metal	2-cond., clamp	.60

PUSH BUTTON & ROTARY SWITCHES

"Littel-Switch" (Fig. F)—Non-locking only. Red button listed, for **Black,** change Nos. to 201, 202 or 203. Low amp. **"FF-Switch" (Fig. G)**—Black push button. Non-locking only. 3-amp., 120 volt AC silver non-inductive contacts. **"RS-Switch" (Fig. H)**—Locking or non-locking, 2 or 3 position. Same contacts as above. All Models mount in ⅜″ hole, panels to ¼″ thick.



Neutral position shown.

LITTEL-SWITCH		FF-SWITCH		RS-SWITCH		
No.	Net	No.	Net	No.*	Net	Schem.
101	51c	1001	$0.57	2001	60c	15
102	51c	1002	.57	2002	60c	16
103	54c	1003	.66	2003	72c	17
....	....	1004	.72	2004	75c	18
....	....	1005	.72	2005	75c	19
....	....	1006	.87	2006	99c	20
....	....	1009	1.20	....	....	21

"RS-SWITCHES"—3-POSITION TYPES

No.	†	Net	No.	†	Net	No.	†	Net
2034	29	75c	2035	30	75c	2036	31	99c

*Add **L** to Type Number for locking types.
†Schematic, See "LEV-R-SWITCHES"

"SHIELDED JAX" (FIG. V)

No.	Circuit, See Littel-Jax No.	Net
CN-11	11	48c
CN-12A	12A	51c
CN-12B	12B	57c
CN-13B	13B	69c

EXTENSION JAX (FIG. K)

Clamp-type terminal provides cable terminal. Spring tempered nickel silver springs. Terminals mechanically interlock. Bakelite or nickel plated brass handles.

No.	Handle	Description and Type Terminal	Net Each
80	Black	2-cond., screw	$0.69
88	Black	2-cond., lug	.60
120	Shielded	2-cond., screw	.93
128	Shielded	2-cond., lug	.84
830	Black	3-cond., screw	.93
838	Black	3-cond., lug	.84
1230	Shielded	3-cond., screw	1.17
1238	Shielded	3-cond., lug	1.08
S-128	Shielded	(2), special lug	.90

"ADAPTERS"

No.	Description	Net
332	Phone jack input to female mike con. output. (**Fig. L**)	$1.05
334	Phono jack con. input to female mike out. (Not Ill.)	.87
336	Phone jack input to phono plug output. Not Ill.	.87
338	Male mike con. input to phono plug output (**Fig. M**)	.87
342	Dual-purpose binding post/banana jack in to phone out.	1.56
344	Phono jack input to phone plug output. (**Fig. N**)	.87
346	Tip jack input to phone plug output. (**Fig. O**)	1.29

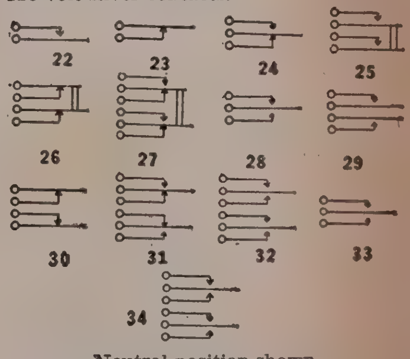
"FLAT PLUG" (FIG. J)

Removable plastic cap; terminals and body mechanically interlocked.

No.	Handle	Description	Net
220	Black	2-cond., screw term.	45c
225	Red	2-cond., screw term.	45c
227	Black	2-cond., lug terminal	42c
229	Red	2-cond., lug terminal	42c
230	Black	3-cond., screw term.	66c
235	Red	3-cond., screw term.	66c
237	Black	3-cond., lug terminal	63c
239	Red	3-cond., lug terminal	63c

"LEV-R-SWITCHES" (FIG. I)

Unusually small, mounts in ¹⁵⁄₃₂″ hole in panels to ⁵⁄₆₄″ thick. Long-life springs, detent action on locking types; 3-amp., 120 volt silver contacts.



Neutral position shown.

Two-Position Type			Three Position Type		
No.*	Schem.	Net	No.*	Schem.	Net
3001	22	$1.17	3033	28	$1.50
3002	23	1.17	3034	29	1.56
3003	24	1.35	3035	30	1.56
3004	25	1.50	3036	31	1.74
3005	26	1.50	3037	32	1.77
3006	27	1.65	....	..	....

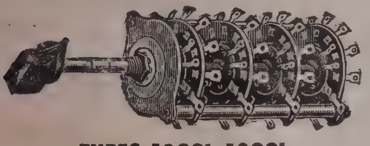
*Add **L** to Type Number for locking types.

INTERCOMM. SWITCHES

3033T—Schematic 33. Net Each..**$1.50**
3037T—Schematic 34. Net Each.. **1.77**

Mallory Special Purpose Switches

MULTI-SECTION ROTARY SWITCHES



TYPES 1200L-1300L

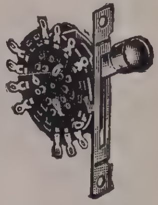
For test equipment, meter switching and low current industrial applications. All contacting members are silver plated. This assures low contact resistance. Phosphor-bronze springs insure long life and prevent failures. Insulated with high-grade phenolic resin. All switches have ½″ spacing between sections excepting the three and four section which have 1″. Supplied with ⅜″ dia., ⅜″ long brass bushing and 2″ long shaft grooved for cutting. Require 7/16″ mtg. hole Bar knob, locknut and washer included. Average shipping weight 8 oz.

Short. Type Mallory No.	Non-Short. Type Mallory No.	No. of Circuits Per Section	No. of Circuits Per Switch	No. of Positions	No. of Sections or Gangs	Net Each
1211L	1311L	1	1	2 to 11	1	.93
1215L*	1315L*	2	2	2 to 5	1	.99
1213L*	1313L*	3	3	2 to 3	1	1.08
1212L*	1312L*	4	4	2 to 2	1	1.14
1221L	1321L	1	2	2 to 11	2	1.38
1225L*	1325L*	2	4	2 to 5	2	1.56
1223L*	1323L*	3	6	2 to 3	2	1.68
1222L*	1322L*	4	8	2 to 2	2	1.77
1231L	1331L	1	3	2 to 11	3	1.86
1235L*	1335L*	2	6	2 to 5	3	1.98
1241L	1341L	1	4	2 to 11	4	2.37
1245L*	1345L*	2	8	2 to 5	4	2.76
1251L	1351L	1	5	2 to 11	5	2.94
1256L	1356L	2	10	2 to 6	5	3.63
1261L	1361L	1	6	2 to 11	6	3.48
1266L	1366L	2	12	2 to 6	6	4.44

*These switches are provided with an "off" position which is in addition to the number of positions listed in the fifth column.

LEVER ACTION SWITCHES

TYPES 5000—6000—7000



Particularly adapted to centralized radio, sound distribution, public address equipment and intercommunicating systems. Housing and bracket are one integral part, prevents warping or mis-alignment of contacts. Terminals secured by "wrap-around" method to high grade phenolic resin. 5000 series bracket have elongated holes spaced 2 3/16″ to 2⅜″ apart. 6000 and 7000 series round holes spaced 1⅝″ apart. Can be mounted in multiple with ¾″ between lever arm centers. Knob and two 6-32 bolts and nuts furnished. Shipping weight 4 oz.

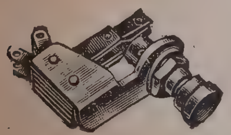
POSITIVE INDEXING

Mallory No. Shorting Type	Mallory No. Non-Short. Type	No. of Poles or Circuits	No. of Positions or Contacts	Net Each
5124	5224	2	4	$0.90
6142	6242	4	2	.75
6143	6243	4	3	.75

SPRING RETURN

Mallory No. Shorting Type	Mallory No. Non-Short. Type	No. of Poles or Circuits	No. of Positions or Contacts	Net Each
7122-L	7222-L	2	2	.75
7123-C	7223-C	2	3	.75
7142-L	7242-L	4	2	.75
7143-C	7243-C	4	3	.75
7162-L	7262-L	6	2	.75

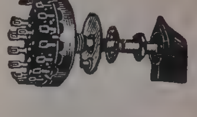
SINGLE PUSH-BUTTON SWITCHES TYPE 2000



For a wide variety of applications requiring momentary or permanent contact. Especially adapted for use in laboratories, on test panels, in meter circuits, etc. Locking types keep circuit closed until button is pulled out. Non-locking types maintain contact only while button is held in depressed position. Phosphor bronze springs, silver plated contacts. Steel frame cadmium plated. Mount in 7/16″ hole on panels up to ¼″ thick. Polished resin knob, nut and lockwasher furnished. Shipping weight 4 oz.

Mallory No.	Circuit Arrangement	Net Each
2001	S. P. Make contact—Non-locking	$0.78
2001-L	S. P. Make contact—Locking	.78
2002	S. P. Break contact—Non-locking	.78
2002-L	S. P. Break contact—Locking	.78
2003	S. P. Double-Throw—Non-locking	.84
2003-L	S. P. Double-Throw—Locking	.84
2004	2-Pole—Make two contacts—Non-locking	.96
2004-L	2-Pole—Make two contacts—Locking	.96
2005	2-Pole—Break two contacts—Non-locking	.96
2005-L	2-Pole—Break two contacts—Locking	.96
2006	2-Pole—Double-Throw—Non-locking	1.17
2006-L	2-Pole—Double-Throw—Locking	1.17
2007	2-Pole—Make two—Break one—Non-locking	1.05
2007-L	2-Pole—Make two—Break one—Locking	1.05
2008	Dble-Throw—Make before break—Non-lock.	1.32
2008-L	2-Pole—Double-Throw—Make before break—Locking	1.32

SINGLE SECTION ROTARY SWITCHES

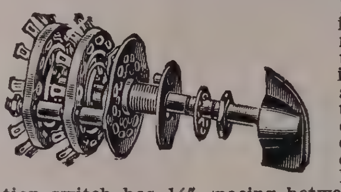


TYPES 3100J
3200J

For use in small receivers as tone controls, band selector and antennae switching; also for meter switching in test equipment and other devices where space is a factor. Two sizes available: 1¼″ dia. 30° indexing and 1 11/16″ dia. 20° indexing. Insulated with high-grade phenolic resin. Supplied with ⅜″ dia., ⅜″ long brass bushing and 2″ long shaft grooved for cutting. Requires 7/16″ mounting hole. Bar knob, locknut and washer included. Average shpg. wt. 4 oz.

Short. Type Mallory No.	Non-Short. Type Mallory No.	No. of Circuits	No. of Positions	Diam. of Base	Adjustable Stop	Net Each
3115J	3215J	1	5	1¼″	No	$0.69
31112J	32112J	1	12	1¼″	No	.69
3122J	3222J	2	2	1¼″	No	.69
3123J	3223J	2	3	1¼″	No	.69
3126J	3226J	2	6	1¼″	No	.69
3134J	3234J	3	4	1¼″	No	.72
3142J	3242J	4	2	1¼″	No	.72
3143J	3243J	4	3	1¼″	No	.72
31117J	32117J	1	2 to 17	1 11/16″	Yes	1.08
3129J	3229J	2	2 to 9	1 11/16″	Yes	1.08
3136J	3236J	3	2 to 6	1 11/16″	Yes	1.17
3163J	3263J	6	2 to 3	1 11/16″	Yes	1.17

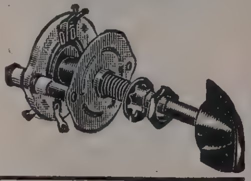
CERAMIC SECTION SELECTOR SWITCHES TYPE 170L



Ideal for highly efficient, critical r-f circuit applications in radio receivers and low-power transmitter circuits. Ceramic insulation minimizes r-f losses and retards moisture absorption. Adjustable stop is feature of index assembly permitting choice of 2 to 11 positions. All current carrying parts are heavily silver plated. Two section switch has ½″ spacing between sections, three section 1″. Supplied with ⅜″ dia., ⅜″ long brass bushing and 2″ long shaft grooved for cutting. All types non-shorting. Bar knob, locknut and washer included. Average shipping weight 7 oz.

Mallory No.	Number of Gangs	Number of Circuits Per Gang	Number of Positions	Net Each
172C	1	1	2 to 11	$1.35
173C	1	2	2 to 5	1.35
174C	1	3	2 to 3	1.35
176C	2	1	2 to 11	2.10
177C	2	2	2 to 5	2.10
178C	2	3	2 to 3	2.10
180C	3	1	2 to 11	3.00
181C	3	2	2 to 5	3.00

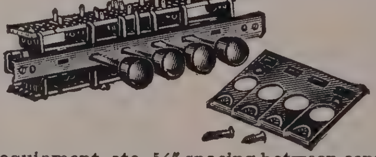
CERAMIC SECTION "HAMBAND" SWITCHES TYPE 160C



A special ceramic switch designed for transmitter circuits up to 1000 V. D. C. with power up to 100 watts. Ceramic insulation is employed in both sections and spacers. 90° indexing between positions, and capable of continuous rotation. Supplied with ⅜″ dia., ⅜″ long brass bushing and 2″ long shaft grooved for cutting. Bar knob, locknut and washer included. Shipping weight 8 oz.

Mallory Number	No. of Sections	Circuits	Spacing Between Sections	Contacts Per Circuit	Net Each
161C	1	1	......	4	$1.35
162C	2	2	2″	4	2.10
163C	3	3	1″	4	3.00
164C	4	4	1″	4	3.60
165C	5	5	1″	4	4.50

MULTIPLE PUSH-BUTTON SWITCHES TYPE 2100



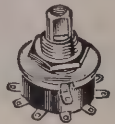
For applications requiring a device for making, breaking, or transferring multiple circuits in automatic station selector tuning, inter-com systems, telephone and annunciator systems, test equipment, etc. ⅝″ spacing between centers of plungers. Furnished with brown resin knobs, bronze escutcheon plate with blank inserts and transparent strip for windows. Average shipping weight 11 oz.

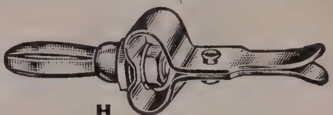
Mallory Number	Number of Buttons	Type	Net Each
2164	4	Circuit Closing	$3.15
2166	6	Circuit Closing	3.93
2168	8	Circuit Closing	4.74
2184	4	Circuit Transfer	3.15
2186	6	Circuit Transfer	3.93
2188	8	Circuit Transfer	4.74
2194	4	†Circuit Transfer	3.15
2196	6	†Circuit Transfer	3.93
2198	8	†Circuit Transfer	4.74

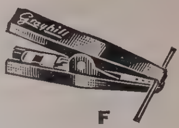
†Non-shorting.

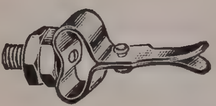
Switches and Clips

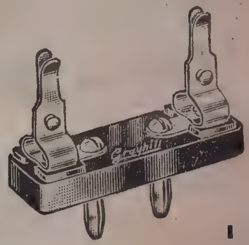
GRAYHILL SWITCHES AND CLIPS











PUSH BUTTON SWITCHES—MOMENTARY TYPE

Series 2000 (Fig. A)—Snap-action switch, single pole, single throw unit. Solder terminals only. Housing and button are molded phenolic. When button is actuated a distinct click is heard. 10 amps, 115 volts AC non-inductive. Body diameter. ⅞". With 2 hex. nuts. Shipping weight, 4 oz.

Series 4000 (Fig. B)—Non-snap-action, single pole, single throw unit. ½ amp., 115 volts AC non-inductive. At factory rating, life expectancy is approx. 800,000 operations; 100,000 at 1 amp. Solder terminals only. ⅜" bushing; $\frac{15}{32}$ thread. $\frac{51}{64}$" diameter by $1\frac{17}{32}$" overall. Shipping weight, 4 oz.

Type	Contacts	Net Ea.	Type	Contacts	Net
2201	Normally Open*	$1.65	4001	Normally Open*	60c
2202	Normally Closed†	1.65	4002	Normally Closed†	60c

*Red Button. †Black Button.

Series 23 (Fig. C)—A tiny push button switch designed for miniature equipment. Overall length, fully extended, is slightly over one inch. ½" wide at widest point. Housing and button are molded phenolic. Momentary contact, single pole, single throw, non-snap-action switch. Solder terminals only. Normally open. Red button. Weight, 2 oz.
Net Each.. 75c

MINIATURE TAP SWITCHES (FIGS. D & E)

Designed primarily to fit in with current miniaturization trends. Internal mechanism enclosed in a Melamine type molded housing chosen for its high arc resistance. Threaded mounting bushing and cover plate are cadmium plated. Shaft is stainless steel. With 10 positions, the switch has 360° rotation in either direction. When 9 positions or less are desired, stops are built in. Contacts positioned 36° apart. Maximum contact arrangement is 6 decks. 10 positions per deck. **To Order:** Stock numbers are determined by number of decks and number of positions per deck. For a switch with 6 decks, each with 7 positions, the number would be 5607.

NET PRICES

No. of Decks	Number of Contact Positions Per Deck								
	2	3	4	5	6	7	8	9	10
1	$0.75	$0.80	$0.85	$0.90	$0.95	$1.00	$1.05	$1.10	$1.15
2	2.65	2.70	2.74	2.78	2.82	2.86	2.90	2.94	2.98
3	2.88	3.00	3.12	3.24	3.36	3.48	3.60	3.72	3.84
4	3.42	3.58	3.74	3.90	4.06	4.22	4.38	4.54	4.70
5	3.96	4.16	4.36	4.56	4.76	4.96	5.16	5.36	5.56
6	4.50	4.74	4.98	5.22	5.46	5.70	5.94	6.18	6.42

INSULATED ALLIGATOR TEST CLIP (FIG. F)

Fully insulated, including hinge pin, allowing two or more clips to be placed side by side, and touching one another, without shorting. Insulating members are molded phenolic. The point of contact is silver. Conductor is silver plated for easy soldering. **No. 16-B** (black), **No. 16-R** (Red).
Net Each.. 75c

PANEL-MOUNT TEST CLIPS

Especially designed for speed and convenience. They not only permit fast testing, but provide a dependable, positive contact on every test.

Type 2-0 Clip (Fig. G)—Ideal for laying out a harness. Spring tension (adjustable to some extent by tightening hex nut adjacent to clip) insures firm hold on lead. Clips spread slightly to accommodate various sizes of wire. Net Each......... 15c

Type 2-1 Clip (Fig. H)—Ideal for use with "Q" meters and similar precision test equipment having jacks on irregular spacing. Net Each.............................. 30c

Type 2-2 Plug-in Adapter (Fig. I)—Designed to simplify testing of resistors, capacitors, diodes and similar pigtail-type components. Banana plugs spaced on standard ¾" centers for use with lab instrument jacks. Phenolic molded board.
Net Each.. $1.25

MALLORY JACK SWITCHES

Highly recommended for use in laboratories, test panels, meter circuits and other equipment where variable circuit combinations are possible through use of the leaf spring type assembly.

Description. Junior jack or short frame type is constructed with the frame supporting the spring stack at right angles. Due to the short springs used, only a minimum of space is necessary for mounting. Knob and shaft rotate through bushing, actuating cam. Frames are cadmium plated. Bushings and special alloy springs are nickel plated. Fine silver contacts insure low contact resistance. Suitable for mounting in a single hole ($\frac{7}{16}$") on panels up to ¼". Furnished with ¼" flatted shaft. One mounting nut and washer furnished. Knobs suitable for these switches will be found elsewhere in this catalog.

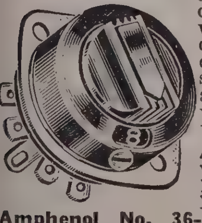
JACK SWITCHES—TWO POSITION

Mallory No.	Circuit Arrangement	Net Each
720	Single-Pole, Single-Throw	$0.66
730	Single-Pole, Double-Throw	.81
740	Double-Pole, Single-Throw	.90
745	Five springs, two break and one make	1.05
760	Double-Pole, Double-Throw	1.17
733	Three-Pole, Single-Throw	1.17
744	Four-Pole, Single-Throw	1.53

THREE POSITION

Mallory No.	Circuit Arrangement	Net Each
732	Double-Pole, Single-Throw Center "Off"	$0.81
762	Double-Pole, Double-Throw Center "Off"	1.14
763	Three-Pole, Single-Throw Center "Off"	1.50
764	Four-Pole, Double-Throw Center "Off"	1.86

AMPHENOL TAP SWITCH



8 position single pole continuous switch with white markings, clearly visible in window cap. Side set screw locks switch arm in position, preventing accidental tap changes.

Amphenol No. 36-1, with numerals from 1 to 8.
Net Each..... 56c

Amphenol No. 36-2, with impedance markings: 0-2-4-8-16-250-500.
Net Each.......................... 56c

FEDERAL ANTI-CAPACITY SWITCHES

Silver plated phosphor bronze springs and contacts plus new, improved design insure excellent, long service.

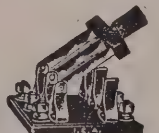
Fed. No.	Poles	Net Each
1424	4PDT	$2.86
1425	DPDT	2.53
1427	DPST (N.O.)	2.53
12494	8PDT.......	6.20

ICA KNIFE SWITCHES

Can be mounted on panel or base. Black bakelite base, highly nickel plated brass parts with insulated handles.

MINIATURE KNIFE SWITCHES

ICA No.	Descr.	Base Size, In. L & W	Net Ea.
2223	SPST	1¼x½	25c
2224	SPDT	1¼x½	42c
2225	DPDT	1¼x1	53c
2226	DPST	1¼x1	50c



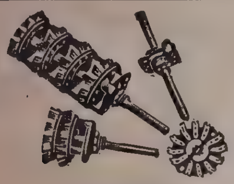
STANDARD KNIFE SWITCHES

Hardware of brass, heavily nickel plated. Mounted on highly polished bases of black bakelite. Firm contact assured.

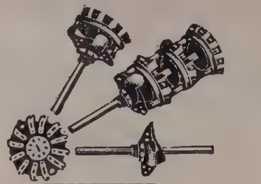
ICA No.	Description	Net Each
1216	SPST	$0.55
1217	SPDT	.60
1218	DPST	.75
1219	DPDT	.90
1360	3PST	1.23
1220	3PDT	1.33
1221	4PST	1.67
1222	4PDT	2.00
1364	5PDT	2.35

WE HAVE SWITCHES FOR EVERY PURPOSE. BECAUSE OF LIMITED SPACE WE CANNOT LIST ALL IN THIS CATALOG. IF YOU HAVE NEED OF ANY SPECIAL TYPE SWITCH NOT LISTED IN THIS CATALOG, WRITE FOR INFORMATION AND PRICES.

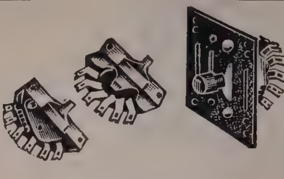
Centralab *Rotary and Lever Switches*



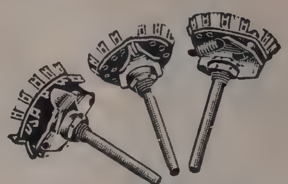
1400 SERIES



2500 SERIES



LEVER ACTION



1400 SERIES—LAMINATED PHENOLIC INSULATION

Extremely compact design. Mounting bushings ⅜″ x 32 thd. x ¼″ long. Shafts 1⅞″ from end of bushing. Positive 30° index with adjustable stop. Revisions or corrections easily made due to availability of all parts separately. Packaged with mounting nut, lockwasher, 1¼″ black bar knob.

SHORTING TYPE | **NON-SHORTING TYPE**

CRL No.	Poles	Positions	Sec.	CRL No.	Net Each
1400	1	2 to 6	1	1401	$0.75
1402	1	2 to 11	1	1403	.90
1404	2	2 to 5	1	1405	.90
1406	3	2 to 3	1	1407	1.05
1408	4	2	1	1409	1.05
1410	2	2 to 6	2	1411	1.20
1412	2	2 to 11	2	1413	1.35
1414	4	2 to 5	2	1415	1.50
1416	6	2 to 3	2	1417	1.65
1418	8	2	2	1419	1.65
1420	3	2 to 6	3	1421	1.65
1422	3	2 to 11	3	1423	1.80
1424	6	2 to 5	3	1425	1.95
1426	4	2 to 6	4	1427	2.10
1428	4	2 to 11	4	1429	2.25
1430	8	2 to 5	4	1431	2.70

LAMINATED PHENOLIC SECTIONS ONLY

CRL No. Shorting	CRL No. Non-Short.	Poles Per Section	No. of Positions	Net Each
A	H	1	2 to 6	30c
B	J	1	2 to 11	45c
C	K	2	2 to 5	45c
D	L	3	2 to 3	60c
E	M	4	2 only	60c
EE	....	4	2 to 3	90c
F*	....	1	2 to 5	45c
G†	....	1	2 to 10	45c

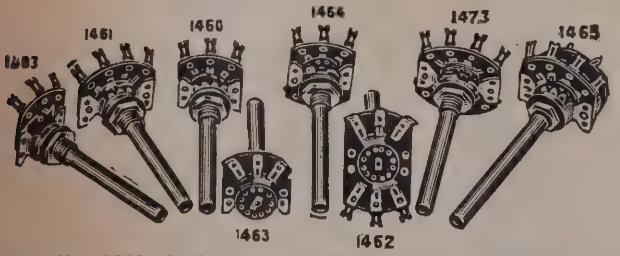
N and P Special—Combine for resistance decade switch....**45c**
Q—Special for capacitance decade switch..................**45c**
P-1 Special—10 pos. progressively shorting out 9 pos.......**60c**
*Unused contacts on one side of common connected or shorted out.
†All unused contacts connected or shorted out.

DIAL PLATES AND KNOBS FOR ROTARY SWITCHES

CRL No.	Dial Plates	Net Each	CRL No.	Knobs	Net Each
P-115	1 to 5...........	12c	P-119	1⅛″ Rd. Blk. Ar.	12c
P-116	1 to 6...........	12c	P-120	1¼″ Blk. Bar Kn.	12c
P-117	1 to 10..........	12c	P-193	Blk. Lever Switch	9c
P-118	1 to 11..........	12c	P-194	Red Lever Switch	12c
P-173	1 to 23..........	15c	P-195	Wh. Lever Switch	12c

For complete listing of switch hardware to fit 1400 and 2500 series, consult Centralab Catalog No. 37, free upon request.

TONE SWITCHES



CRL No. 1460—SPDT. May be used as SPST Positive index. Shorting contacts. Net Each.......................**$0.45**

CRL No. 1463—Same as above except has spring return index and non-shorting contacts. Net Each..................**$0.45**

CRL No. 1461—SP. Three position selector switch. Positive index. Shorting contacts. Net Each..................**$0.45**

CRL No. 1462—DPDT. May also be used as SPDT or SPST. Positive index. Shorting contacts. Net Each.............**$0.45**

CRL No. 1464—Same as above except has spring return index and non-shorting contacts. Net Each..................**$0.60**

CRL No. 1465—SP. Four position selector switch with SPST AC line switch attached. Has three active positions and one "off" Use for replacement in Philco, RCA, GE and other late model receivers. Positive index. Shorting contacts. Net Each........**$0.75**

CRL No. 1473—Two pole, three position. Positive index. Shorting contacts. Net Each..................................**$0.60**

CRL No. 1483—Specifically designed to be used with auxiliary rear seat auto radio speakers. Permits the operation of either speaker separately or both simultaneously. Positive index. Shorting contacts. Extra long shaft. Net Each...............**$0.45**

2500 SERIES—STEATITE INSULATION

Made of highest quality (grade L-5) Steatite insulation. Meet critical requirements of r. f. circuit applications. Bushing ⅜″ x 32 thd. x ⅜″ long. Shaft 1⅞″. Positive 30° index with adjustable stop. Packaged with mounting nut, lockwasher and 1¼″ black bar knob.

SHORTING TYPE | **NON-SHORTING TYPE**

CRL No.	Poles	Positions	Sec.	CRL No.	Net Each
2500	1	2 to 6	1	2501	$1.35
2502	1	2 to 11	1	2503	
2504	2	2 to 5	1	2505	
2506	3	2 to 3	1	2507	
2510	2	2 to 6	2	2511	2.10
2512	2	2 to 11	2	2513	
2514	4	2 to 5	2	2515	
2516	6	2 to 3	2	2517	
2520	3	2 to 6	3	2521	3.00
2522	3	2 to 11	3	2523	
2524	6	2 to 5	3	2525	

SEPARATE STEATITE SECTIONS

CRL No. Shorting	CRL No. Non-Short.	Poles Per Section	No. of Positions	Net Each
T	X	1	2 to 6	75c
U	Y	1	2 to 11	
R	RR	2	2 to 5	
S	SS	3	2 to 3	
V	Z	4	2	
GG*	....	1	2 to 10	

*Unused contacts connected and shorted out.

LEVER ACTION SWITCHES

Coil spring and cam index design provide guaranteed minimum life 150,000 switching cycles. Smooth "clean" action. Coil type index spring. Furnished with black paddle-type knob. Rating 6 watts.

SHORTING TYPE | **NON-SHORTING TYPE**

CRL No.	Poles	Positions	Index	CRL No.	Net Each
1452	2	3	Positive	1454	75c
1453	2	3	Spring Return	1455	
1456	4	2	Spring Return	1457	
1459	4	2	Positive	1458	
1466	2	3	Positive and Spring Return	1467	

Mounting Plates for Lever Switches—Type A made of .035″ die cut steel, black crackle finish. Provides ¾″ spacing between switches, Type B for use in electrical outlet boxes. Chrome plated steel with mounting holes 3 5/16″ between centers.

Type A—Height 2⅝″

CRL No.	No. Switches	Lgth. In.	Net Each
P-1755	1	¾	21c
P-1756	2	1½	24c
P-1757	3	2¼	30c
P-1758	4	3	36c
P-1759	5	3¾	45c

Type B

CRL No.	No. Switches	Net Each
P-221	1	36c
P-222	2	45c

Size: 2¾″ x 4½″ overall.
¾″ spacing between switches.

ROTARY ACTION FLAT SWITCHES

Type 1443—"23 CLIPPER" single pole, 23 positions, shorting type contacts. 15° positive index. Requires 1″ behind panel. Double wiping silver plated contacts. With dial plate. Net **$1.95**

Type 1450—"ECONO-SWITCH". A 4 pole, 2 position economically designed switch. Requires only ⅝″ depth behind panel. Can be used as SPST, SPDT, DPDT, 3PST, 4PST, or 4PDT. Positive non-shorting leaf type index. Laminated phenolic insulation. Net Each...**60c**

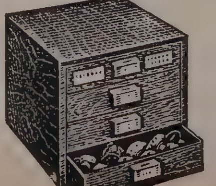
Type 1451—"PERMA-SWITCH." Long life coil spring switch similar in style to the type 1450 but with 4 pole 2 positions. Designed for hard life and long use in test equipment, etc. Net Each...**$1.05**

NEW ALL PURPOSE INTERCOM SWITCHES

Type 1448-1449—Six pole three position, will fit practically every intercom application in use. Both units have replaceable coil spring indexing assuring 50,000 cycles minimum.

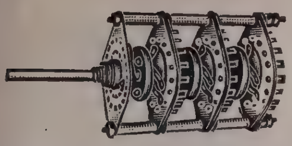
CRL No. 1448—Spring return one side. Net Each.......**$1.35**
CRL No. 1449—Spring return both sides. Net Each.....**$1.35**

ROTARY SWITCH KIT



1500 Switch Kit—A four drawer cabinet containing an adequate supply of sections and indexes to custom build two 4 section switches, two 3 section, four 2 section, six 1 section, one 2 section condenser decade and one 1 section resistor decade switch. For laboratories, engineers, hams and experimenters needing specialized switching arrangements. Net Each.......**$30.00**

Centralab *Rotary Switches*



NEW SERIES JV-9000 MEDIUM DUTY POWER SWITCH

Designed to meet the requirements of medium high power, excellent accuracy, and long life needed in transmitter, industrial control and balancing, laboratory testing, power supply converter and many other special applications. Rated at 750 watts sea level (7½ amps, 60 cycle, 115 volts AC) 375 watts at 35,000 feet. Has been used up to 20 megacycles. Breakdown point 3,000 volts RMS—60 cycle. Solid silver contacts for low loss operation at high frequencies and high voltages. Stainless steel roller wheels assure pin-point accuracy and smooth non-stall rotation. Available in "shorting" and "non-shorting" types. Shorting type makes before break—non-shorting type breaks before make.

Available in 1 pole 2 to 17 positions per section or 3 pole 2 to 5 positions per section and up to 6 sections. Set screw type adjustable stop limits the number of positions to requirements. Sections and index assemblies available separately. Switches and indexes include all hardware, mounting nut and lockwasher. Tie rods extend beyond switch at both ends to aid in locating.

SERIES JV-9000 ROTARY SWITCHES

No. Shorting	No. Non-Shtg.	Poles to Section	No. of Sections	Total Poles	Pos.	Net Each
JV-9000	JV-9001	1	1	1	2–17	$ 7.20
JV-9002	JV-9003	3	1	3	2–5	7.20
JV-9004	JV-9005	1	2	2	2–17	12.60
JV-9006	JV-9007	3	2	6	2–5	12.60
JV-9008	JC-9009	1	3	3	2–17	18.00
JV-9010	JV-9011	3	3	9	2–5	18.00
JV-9012	JV-9013	1	4	4	2–17	23.40
JV-9014	JV-9015	3	4	12	2–5	23.40
JV-9016	JV-9017	1	5	5	2–17	28.80
JV-9018	JV-9019	3	5	15	2–5	28.80
JV-9020	JV-9021	1	6	6	2–17	34.20

SERIES JV-9000 SECTIONS

No. Shorting	No. Non-Shorting	Number Poles	Poles to Section	Number Positions	Net Each
KV-8	KVN-8	1	1	2–17	$5.40
KV-9	KVN-9	3	3	2–5	5.40

SERIES JV-9000 DIAL PLATES

No. P-230 Dial Plate. 2¾″ diameter, 20 degree markings, marked 1 to 5. Net Each.......... 18c

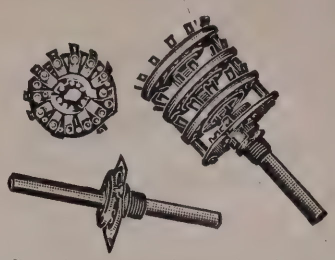
No. P-231 Dial Plate. 2¾″ diameter, 20 degree markings, marked 1 to 17. Net Each.......... 18c

SERIES JV-9000 INDEX

No. KV-7 Index Assembly. Includes shaft, tie rods, spacers, nuts and lockwashers, adjustable stop pin, 2″ black bar knob and dial plate. Net Each.......... $3.60

SERIES PA-2000 INDEX ASSEMBLIES

No.	Degree Index	Rear Shaft Length	Suggested No. Sections	Net Each
PA-300	30	2″	1 or 2	$0.90
PA-301	30	4″	3 or 4	1.20
PA-302	30	6″	5 or 6	1.50
PA-304	60	2″	1 or 2	.90
PA-305	60	4″	3 or 4	1.20



SERIES PA-2000 MINIATURE ROTARY SWITCHES STEATITE INSULATION

Complete line of steatite insulated miniature rotary switches wth the following features: 1-piece shaft construction; adjustable stop allows selection of positions or continuous rotation; nickel plated brass shaft, bushing, tie rods and nuts; special treatment meets 50 hour salt spray tests; available as complete switches or separate assemblies. Excellent R.F. characteristics. Contacts are double wiping silver plated, shaft nickel plated brass 1⅞″ from bushing, index available 30 and 60 degree with adjustable stop, mounting is single hole and optional locating lug, bushing ⅜-32 thread, ⅜″ long. Includes mounting nut, lockwasher and 1¼″ black bar knob.

SERIES PA-2000 MINIATURE ROTARY SWITCHES

No. Shorting	No. Non-Shtg.	Poles to Section	No. of Sections	No. Poles	Total Pos.	Net Each
PA-2000	PA-2001	1	1	1	2–12	$1.50
PA-2002	PA-2003	2	1	2	2–6	1.56
PA-2004	PA-2005	1	2	2	2–12	2.25
PA-2006	PA-2007	3	1	3	2–5	1.65
PA-2008	PA-2009	1	3	3	2–12	3.00
PA-2010	PA-2011	2	2	4	2–6	2.34
PA-2012	PA-2013	1	4	4	2–12	3.75
PA-2014	PA-2015	5	1	5	2–3	1.71
PA-2016	PA-2017	1	5	5	2–12	4.50
PA-2018	PA-2019	6	1	6	2	1.71
PA-2020	PA-2021	3	2	6	2–5	2.40
PA-2022	PA-2023	2	3	6	2–6	3.15
PA-2024	PA-2025	1	6	6	2–12	5.25
PA-2026	PA-2027	2	4	8	2–6	3.90
PA-2028	PA-2029	3	3	9	2–5	3.15
A-2P030	PA-2031	5	2	10	2–3	2.55
A-2P032	PA-2033	2	5	10	2–6	4.65
A-2P034	PA-2035	6	2	12	2	2.55
A-2P036	PA-2037	2	6	12	2–6	5.40
A-2P038	PA-2039	5	3	15	2–3	3.45
A-2P040	PA-2041	6	3	18	2	3.45

SERIES PA-2000 STEATITE SECTIONS

No. Shorting	No. Non-Shorting	Number of Poles	Number of Positions	Net Each
PA-0	PA-1	1	2–12	$0.81
PA-2	PA-3	2	2–6	.81
PA-4	PA-5	3	2–5	.90
PA-6	PA-7	5	2–3	.90
PA-8	PA-9	6	2	.90
PA-10	......	1	2–5	.81
PA-11*	PA-18*	1	2–11	.81
PA-12**	......	1	2–10	.81

*All unused contacts connected and shorted out. **1 off, 9 progressively shorting positions. All others with unused contacts 1 side of common connected and shorted out.

No. PA-17 60 Degree Indexing Section. 1 pole, 2-6 positions. Net Each.......... 81c

No. PA-16 Silver Clip and Contact, 30 degree indexing, 1 pole, 2-11 positions. Net Each.......... $1.50

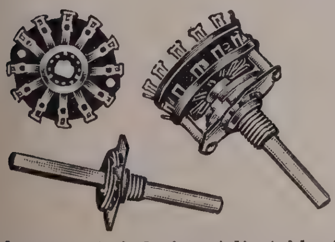
No. PA-14 Silver Clip and Contact, 30 degree indexing, 2 pole, 2-5 positions. Net Each.......... $1.50

No. PA-15 Silver Clip and Contact, 30 degree indexing 4 pole, 2 positions. Net Each.......... $1.50

No. P-319 Adjustable Stop Plate. Net Each.......... 15c

No. P-320 Intersection Shield.......... 15c

NEW SERIES PA-1000 MINIATURE ROTARY SWITCHES



Complete new line of laminated phenolic insulated rotary switches, basically matching the 2000 series in physical size and the 1400 series in switching. Index assemblies and hardware are same as for 2000 series. Phenolic insulation used in this series actually exceeds Phenolic Standards Grade XXXP due to high resin content. No wax, varnish or surface additives required. One piece shaft construction for accurate indexing. Adjustable stop allows selection of position or continuous rotation. Steatite spacers are used with nickel-plated brass shafts, bushings, tierods and nuts. All other metal parts treated for passing 50 hour salt spray test.

Insulation: High strength, high resin laminated phenolic. Low moisture absorption, insulation resistance dry—121,000 megohms. **Contacts:** Double wiping silver-plated spring brass. **Rating:** General use, 6 watts, excellent RF characteristics. **Shaft:** Nickel-plated brass 1⅞″ long F.E.O.B., 2¼″ from mounting surface. **Mounting:** Single hole and optional locating lug. **Index:** 30° or 60° with adjustable stop.

No. Shorting	No. Non-Shtg.	Poles to Section	No. of Sections	No. Poles	Total Pos.	Net Each
PA-1000	PA-1001	1	1	1	2-11	$1.35
PA-1002	PA-1003	2	1	2	2-5	1.35
PA-1004	PA-1005	1	2	2	2-11	1.80
PA-1006	PA-1007	3	1	3	2-3	1.35
PA-1008	PA-1009	1	3	3	2-11	2.25
PA-1010	PA-1011	4	1	4	2	1.35
PA-1012	PA-1013	2	2	4	2-5	1.80
PA-1014	PA-1015	1	4	4	2-11	2.70
PA-1016	PA-1017	1	5	5	2-11	3.15
PA-1018	PA-1019	3	2	6	2-3	1.80
PA-1020	PA-1021	2	3	6	2-5	2.25
PA-1022	PA-1023	1	6	6	2-11	3.60
PA-1024	PA-1025	4	2	8	2	1.80
PA-1026	PA-1027	2	4	8	2-5	2.70
PA-1028	PA-1029	4	3	12	2	2.25
PA-1030	PA-1031	2	5	10	2-5	3.15
PA-1032	PA-1033	2	6	12	2-5	3.60
PA-1034	....	1	1	1	2-10	1.35

Mounting nut, lockwasher and 1¼″ black bar knob are included with all above switches.

EVEREADY Batteries

TRADE-MARK

Compact—"Eveready" Radio Batteries made modern portable radios possible. "Eveready" "Mini-Max" batteries are smaller in size because they contain no waste space, are constructed of flat tightly-fitted cells.

Powerful—"Eveready" Radio Batteries pack tremendous energy in tiny space. And there is an "Eveready" Radio Battery built with this famous construction to equip virtually every battery operated radio!

No. 950

No. 964

No. 477

No. 467

A AND B BATTERIES FOR PORTABLE RECEIVERS

"Eveready" No.	Voltage	Overall Dimensions, Inches L W H	List Price, Each	Unit Qty.	Wt. of Unit, Lbs.	Battery Weight	Terminals	Net Price Unit Package	Net Price Each, in Unit Package
411	15 Volt	1 1/32 x ⅝ x 1 29/64	$0.95	5	1 1/16	⅘ oz.	Flat Contact −, +15	$ 3.25	$0.65
412	22½ Volt	1 1/32 x ⅝ x 2	1.15	5	1½	1⅕ oz.	Flat Contact −, +22½	4.00	.87
413	30 Volt	1 1/32 x ⅝ x 2 9/16	1.40	5	1.1	1⅖ oz.	Flat Contact −, +30	4.80	1.03
415	45 Volt	1 3/64 x ⅝ x 3 43/64	2.00	6	⅞	2½ oz.	Snap Type −, +45	9.48	1.58
417	15 Volt	1 5/16 x 31/32 x 1 9/16	1.00	6	0.8	1⅘ oz.	Flat Contact −, +15	5.10	.85
420	22½ Volt	1 5/16 x 31/32 x 2 3/16	1.50	6	1.1	2½ oz.	Flat Contact −, +22½	6.18	1.03
430	30 Volt	1 5/16 x 1 x 2 13/16	1.75	24	5½	3⅕ oz.	Flat Contact −, +30	28.56	1.19
437	75 Volt	1 15/16 x 1 15/16 x 6 15/32	3.25	3	3	14¾ oz.	Snap Type −, +75	7.38	2.46
455	45 Volt	2 21/32 x 1 x 3 11/16	1.95	6	3¼	7⅘ oz.	Snap Type −, +45	8.52	1.42
457	67½ Volt	2 13/16 x 1⅜ x 2½	2.50	6	3	7⅖ oz.	Snap Type −, +67½	11.58	1.93
467	67½ Volt	2 13/16 x 1⅜ x 3 45/64	2.75	6	4¾	12 oz.	Snap Type −, +67½	12.42	2.07
477	67½ Volt	1 29/32 x 3/64 x 5 7/16	2.35	6	3	8⅗ oz.	Snap Type −, +67½	10.56	1.76
479	90 Volt	1 31/32 x 1 1/32 x 7 15/32	3.25	6	4¾	....	Snap Type −, +90	13.68	2.28
482	45 Volt	3 19/32 x 1 27/32 x 5½	2.50	6	12½	1 lb. 15 oz.	Socket −, +45	....	1.93
484	45 Volt	3 31/32 x 2 17/32 x 5 5/16	3.25	1	3¼	3 lb. 2 oz.	Socket −, +45	15.12	2.52
490	90 Volt	3 23/32 x 1⅜ x 3 45/64	3.60	6	6½	15 oz.	Snap Type −, +90	....	7.70
504	15 Volt	⅝ x 19/32 x 1⅜	1.00	1	1/16	⅗ oz.	Flat Contacts	....	.68
505	22½ Volt	⅝ x 19/32 x 1 63/64	1.25	1	1/16	⅘ oz.	Recessed	....	.87
506	30 Volt	1 13/64 x ⅝ x 1 27/64	1.60	1	1/16	9/10 oz.	Flat Contacts	....	1.10
507	30 Volt	⅝ x 19/32 x 2.605	1.25	1	1/16	9/10 oz.	Flat Contact −, +30	....	.96
738	45 Volt	3 x 2 5/16 x 4⅛	3.50	2	2½	1 lb. 3⅖ oz.	Socket −, +22½, +45	4.90	2.45

A BATTERIES FOR PORTABLE RECEIVERS

D-99	1½ Volt	1 21/64 Diam. x 2 13/32	.20	48	10	3⅓ oz.	Flashlight	6.00	.125
635	1½ Volt	1 1/64 Diam. x 1 31/32	.15	12	1⅛	1.. oz.	Flashlight	1.20	.10
713	7½ Volt	3 29/32 x 53/64 x 2 27/32	1.10	1	⅜	6⅓ oz.	Socket −, +7½	....	.77
717	7½ Volt	2 7/32 x 1 15/16 x 3 1/32	1.00	6	3	8 oz.	Socket −, +7½	4.20	.70
718	6 Volt	3 29/32 x 2¾ x 5 7/16	2.45	1	2¾	2 lb. 4 oz.	Socket −, +6	....	1.72
720	1½ Volt	2 25/32 x 1 13/32 x 3 1/32	.65	6	2⅜	6½ oz.	Socket −, +1½	2.70	.45
724	6 Volt	1 7/32 x 1 7/32 x 2 11/32	.75	1	¼	2½ oz.	Flashlight	....	.53
726	4½ Volt	3 15/16 x 1 5/16 x 2 15/16	.75	6	4	10½ oz.	Socket −, +4½	3.18	.53
736	4½ Volt	3 15/16 x 1 5/16 x 4 3/32	.90	6	6¼	1 lb.	Socket −, +4½	3.78	.63
741	1½ Volt	3⅞ x 2 11/16 x 5⅜	2.10	1	2¾	2 lb. 10 oz.	Socket −, +1½	....	1.47
742	1½ Volt	2 9/16 x 2 9/16 x 3 31/32	1.15	6	8	1 lb. 5 oz.	Socket −, +1½	4.86	.81
743	1½ Volt	3 13/16 x 2⅞ x 4 1/32	1.65	3	6	1 lb. 15 oz.	Socket −, +1½	3.48	1.16
744	6 Volt	2 21/32 x 2 21/32 x 3 31/32	1.15	6	8¼	1 lb. 5 oz.	Socket −, +6	4.86	.81
745	1½ Volt	3⅞ x 1 7/16 x 10 25/32	2.25	2	5½	2 lb. 10½ oz.	Socket −, +1½	3.16	1.58
746	4½ Volt	3 15/16 x 1 5/16 x 4 21/32	.95	6	7¼	1 lb. 3⅖ oz.	Socket −, +4½	4.02	.67
747	6 Volt	3⅞ x 1 7/16 x 10 25/32	2.75	2	5½	3 lb. 11 oz.	Socket −, +6	3.86	1.93
†912	1½ Volt	0.4 Diam. x 1¾	.10	12	¼	3 oz.	Flashlight	.96	.08
†915	1½ Volt	35/64 Diam. x 1 31/32	.10	12	1/16	⅗ oz.	Flashlight	.96	.08
†935	1½ Volt	1 1/64 Diam. x 2	.125	12	1⅛	1⅖ oz.	Flashlight	1.17	.0975
†950	1½ Volt	1 21/64 Diam. x 2 13/32	.15	48	9½	3 oz.	Flashlight	4.68	.0975
960P	1½ Volt	1 11/32 Diam. x 4 1/16	.45	1	5/16	5 oz.	Socket −, +1.5	....	.33
964	1½ Volt	1⅜ Diam. x 4 11/64	.30	12	4½	5.9 oz.	Flashlight	2.52	.21
1016	1½ Volt	1 9/64 x 19/32 x 2 1/64	.30	24	1¾	1.1 oz.	2 brass caps, 2 zinc caps	5.04	.21

†Flashlight Types.

A-B PACK FOR 1.4 VOLT PORTABLE RECEIVERS

729	1½ A, 90 B	7 13/16 x 2 7/32 x 3 27/32	5.25	1	2½	2 lb. 7 oz.	Socket − A, +1½ A, −B, +90 B	....	3.68
752	9 A, 90 B	14 1/16 x 2 11/16 x 4 1/16	6.65	1	6¼	6 lb. 2 oz.	Plug − A, +9 A, −B, +90 B	....	4.65
752-W	10½ A, 90 B	14 1/16 x 2 11/16 x 4 1/16	7.10	1	7	6 lb. 8 oz.	Plug −A, +10½ A, −B, +90 B	....	4.97
753	7½ & 9 A, 90 B	9 7/32 x 2 23/32 x 4 5/16	6.25	1	5	4 lb. 12 oz.	Socket − A, +7½ A, +9 A, −B, +90 B	....	4.38
754	7½ & 9 A, 90 B	10 15/32 x 3¼ x 4	6.75	1	6¼	6 lb. 1 oz.	Socket − A, +7½ A, +9 A, −B, +90 B	....	4.73
755	6 & 7½ A, 75 B	8 9/16 x 2 7/16 x 3¾	5.50	1	3¾	3 lb. 9 oz.	Socket − A, +6 A, +7½ A, −B, +75 B	....	3.85
756	7½ & 9 A, 90 B	8⅞ x 2⅛ x 3 25/32	5.95	1	3	2 lb. 14 oz.	Socket − A, +7½ A, +9 A, −B, +90 B	....	4.38
756P	9 A, 90 B	8⅞ x 2⅛ x 3 25/32	6.25	1	3	2 lb. 14 oz.	Plug − A, −B, +9 A, +90 B	....	4.38
757	9 A, 90 B	9 7/32 x 2 23/32 x 4 7/32	6.25	1	5	4 lb. 12 oz.	Plug − A, +90 A, −B, +90 B	....	4.38
776	7½ & 9 A, 90 B	7 27/32 x 4⅛ x 9⅞	10.95	1	15¼	14 lb. 12 oz.	Socket & Plug − A, +7½ A, +9 A, −B, +90 B	....	8.21

Note: All plugs are recessed type.

B BATTERY FOR FARM TYPE RECEIVERS

487	45 Volt	5⅛ x 2 1/16 x 7¼	3.45	6	27	4 lb. 2 oz	Socket −, +22½, +45	15.36	2.56

A-B PACK 1.4 VOLT FARM TYPE RECEIVERS

758	1½ A, 90 B	10 11/16 x 4⅛ x 6 13/16	7.95	1	14¾	14 lb. 4 oz.	Socket − A, +1.5 A, −B, +90 B	....	6.71
759	1½ A, 90 B	15 11/16 x 4 5/32 x 6 15/16	7.95	1	17	16 lb. 4 oz.	Socket − A, +1.5 A, −B, +90 B	....	6.71

C BATTERIES AND MISCELLANEOUS TYPES

703	4½ Volt	2 7/16 x 27/32 x 3 1/16	.60	1	5/16	5 oz.	Spring −, 4½	....	.39
714	4½ Volt	3 31/32 x 1 11/32 x 3 13/32	.60	1	1	14½ oz.	Screw −, 4½	....	.42
750	3 Volt	1 11/32 x 11/16 x 2 11/16	.50	10	1½	2 oz.	Spring −, +3	3.20	.32
751	4½ Volt	2 x 11/16 x 2 21/32	.60	10	2	3 oz.	Spring −, 4½	3.90	.39
760	4½ Volt	2 7/16 x 27/32 x 2 19/32	.60	6	1	4½ oz.	Wire −, +4½	2.52	.42
761T	4½ Volt	4 1/16 x 1 15/32 x 3½	1.15	5	5	14 oz.	Screw +, −1½, −3, −4½	3.95	.79
762-S	45 Volt	4 7/32 x 2 9/16 x 6 15/32	4.50	1	3	2 lb. 12 oz.	Screw − , +22½, +45	....	3.15
763	22½ Volt	3½ x 2 3/32 x 2 15/16	1.95	1	1	14 oz.	Screw −, +22½	....	1.37
766T	22½ Volt	6¾ x 4⅛ x 3 15/16	3.65	6	32	4 lb. 10 oz.	Spring −, +16½, +18, +19½, +21, +22½	15.30	2.55
768	22½ Volt	4⅛ x 2 17/32 x 2 31/32	2.15	1	1½	1 lb. 8½ oz.	Socket +, −3, −4½, −16½, −22½	....	1.51
771	4½ Volt	3 29/32 x 1⅜ x 3 1/16	1.25	5	4½	13 oz.	Socket +, −3, −4½	4.45	.89
773	7½ Volt	3 29/32 x ⅞ x 3⅛	1.20	5	3	9 oz.	5 Screw; 1 wire +, −1½, −3, −4½, −6, −7½	4.20	.84
774	7½ Volt	4 1/32 x 1 13/32 x 3	1.75	5	3	8½ oz.	Socket +, −7½	6.15	1.23
778	22½ Volt	4⅛ x 2 17/32 x 3 7/16	2.45	4	6	1 lb. 8 oz.	Fahnestock +, −3, −4½, −6, −9, −10½, −16½, −22½	6.88	1.72
731	4½ Volt	2 15/32 x 55/64 x 3¼	.65	5	1¾	5 oz.	Screw +, −4½	2.25	.45
7[illegible]9	3 Volt	5 19/32 x 1 7/16 x 3¼	1.10	1	1½	1 lb. 4½ oz.	Flat −, 3	....	.77
7[illegible]9	49½ Volt	8 5/32 x 4¼ x 8 19/32	9.50	6	93½	13 lb. 5 oz.	Spring −, +22½, +45, +49½	42.72	7.12

BURGESS BATTERIES

21R

P45

4FH

2

PORTABLE RADIO "A" BATTERIES

Burgess No.	Volts	Size in Inches	Unit Pkg.	List Price	Net Each
2F4	6	4x2 13/16x5 7/16	1	$2.60	$1.74
Z4	6	1 3/16x1 3/16x2 7/32	12	.75	.53
F3	4½	4x1 7/16x4⅛	6	.87	.60
4F	1½	2⅝x2⅝x4 3/32	6	1.15	.81
6F	1½	4 3/32x2¾x4 1/16	3	1.75	1.17
F4PI	6	2 21/32x2 21/32x4⅛	6	1.15	.81
G3	4½	4 1/16x1⅞x4 11/16	6	.95	.67
B5	7½	3 29/32x⅞x2 27/32	6	1.10	.77
C5	7½	2 7/32x1 15/16x3 1/32	6	1.00	.70
T5	7½	2 17/32x2 19/32x3 29/32	3	1.38	.96
2F	1½	2 19/32x1⅜x4¼	1	.75	.52
8F	1½	3 29/32x2 23/32x5½	1	2.22	1.49
2F4L	6	4x1½x10¾	2	2.92	1.96
21R	1½	1 31/64 (di.) x 4⅛	24	.30	.21
2R	1½	1 21/64 (di.) x 2 25/64	48	.15	.0975
1	1½	63/64 (di.) x 1 15/16	12	.15	.0975
Z	1½	35/64 (di.) x 1 31/32	24	.125	.08
2D	1½	2 9/16x1 9/32x2 31/32	12	.65	.45
D3	4½	3⅞x1 5/16x2 15/16	6	.75	.53

PORTABLE RADIO "B" BATTERIES

P45	67½	1 29/32x1x5 9/32	6	2.50	1.76
XX45	67½	2¾x1 11/32x3 43/64	6	2.95	2.07
XX30	45	2 17/32x31/32x3 21/32	6	2.10	1.42
M30	45	3 9/16x1¾x5½	6	2.75	1.93
K45	67½	2 11/16x1 5/16x2¼	6	2.75	1.93
N60	90	3 11/16x1 9/32x3 19/32	6	3.60	2.52
Z30	45	3x2 5/16x4 1/16	2	3.50	2.45
A30	45	3 9/16x2¼x4 5/16	2	2.50	1.75
B30	45	4 1/16x2 17/32x5 5/16	2	3.50	2.46
XX69	103½	1 11/32x1 11/32x11 23/32	6	5.38	3.60
P45M	67½	1 29/32x1x5 9/32	6	3.35	2.33
P60	90	1 29/32x1x7 13/32	6	3.25	2.28
XX50	75	1 27/32x1 5/16x6 5/16	6	3.50	2.46
U30	45	1 3/32x19/32x3 17/32	1	2.25	1.58

PORTABLE RADIO "A" AND "B" BATTERIES

G6B60	9, 90	13 29/32x2 13/16x4 21/32	1	6.65	4.65
F6A60	7½, 9, 90	9 5/16x2 21/32x4 5/16	1	6.25	4.38
G6M60	7½, 9, 90	10 3/16x3⅛x4 1/32	1	6.75	4.73
T5Z50	6, 7½, 75	8½x3 11/32x2⅜	1	5.50	3.85
T5Z50P	7½, 75	8½x3 11/32x2⅜	1	5.50	3.58
F6A60P	9, 90	9 7/16x2¾x4 11/32	1	6.25	4.38
4GA42	1½, 63	9 1/16x2⅛x4¾	1	6.70	4.50
T6Z60P	9, 90	8 15/16x2 3/16x3 13/16	1	6.25	4.38
4TZ60	1½, 90	7⅝x2⅛x3¾	1	5.25	3.68
6TA60	1½, 90	9 31/32x2¼x4 7/16	1	6.25	4.36
F4A50	6, 75	9 3/32x2 23/32x3 21/32	1	6.25	4.38
2TXX40	1½, 60	2 13/32x1 11/32x7 5/32	1	4.45	3.07
T6Z60	7½, 9, 90	8 15/16x2 3/16x3 13/16	1	6.25	4.38

FARM RADIO "A" BATTERIES

20F2	3	11½x4x6⅛	1	9.30	6.50

FARM RADIO "A" AND "B" BATTERIES

17GD60	1½, 90	15 11/16x4⅜x7 1/16	1	8.95	6.71
4SD60	1½, 90	10 11/16x4 5/16x6 13/16	1	8.95	6.71
S6D60	7½, 9, 90	9⅞x4⅛x7 13/16	1	10.95	8.21

FARM RADIO "B" BATTERIES

21308PI	45	8⅛x4 15/32x7 9/32	6	5.22	3.91
21308SC	45	8⅛x4 15/32x7 9/32	6	5.22	3.91
10308PI	45	8 1/32x4 1/32x7 3/16	6	4.80	3.55
10308SC	45	8 1/32x4 1/32x7 3/16	6	4.80	3.55
2308PI	45	8 3/32x2 31/32x7¼	6	3.45	2.59
2308SC	45	8 3/32x2 31/32x7¼	6	3.45	2.59

INDUSTRIAL AND ELECTRONIC "A" BATTERIES

2FBP	1½	2 21/32x1⅜x4 1/32	5	.95	.65
F2BP	3	2 21/32x1⅜x4 1/32	5	.95	.65
F4BP	6	2⅝x2⅝x4	10	.90	.61
422	3	1 11/32x23/32x2 5/16	10	.50	.32
432	4½	1 31/32x21/32x2¼	10	.60	.39
532	4½	2 15/32x13/16x2 23/32	10	.60	.39
44	1½	1 29/32 (di.) x 4 5/32	10	1.43	.95
2BBP	1½	1 19/32x27/32x2 11/16	6	1.40	.94
B2BP	3	1⅝x13/16x2 11/16	6	1.40	.94
2F2BP	3	5 3/16x1 5/16x4 5/32	10	2.35	1.58

INDUSTRIAL AND ELECTRONIC "B" BATTERIES

Burgess No.	Volts	Size in Inches	Unit Pkg.	List Price	Net* Each
5156SC	22½	4⅛x2½x2¾	5	$2.30	$1.58
5308	45	4 1/16x2 9/16x5⅛	5	3.35	2.31
4156	22½	3 17/32x2⅛x2 29/32	5	1.97	1.39
Z30NX	45	3 1/32x1⅞x4 19/32	5	3.10	2.15
W30	45	3x1¼x3 25/32	6	3.15	2.11
U200	300	2¾x2 9/32x3⅞	6	11.00	7.70
U10	15	1x39/64x1 7/16	1	.95	.65
U15	22½	1x39/64x1 31/32	1	1.25	.87
U20	30	1x39/64x2 17/32	1	1.50	1.03
Y10	15	19/32x19/32x1 23/64	1	1.00	.68
Y15	22½	19/32x19/32x1 31/32	1	1.25	.87
Y20	30	19/32x1 3/16x1 13/32	1	1.60	1.10
Y20S	30	19/32x19/32x2 9/16	1	1.40	.96

INDUSTRIAL AND ELECTRONIC "C" BATTERIES

2370PI	4½	4 1/64x1 27/64x2 63/64	5	.96	.66
2370	4½	3 15/16x1⅜x2⅞	5	.96	.66
5540	7½	4x⅞x2¾	5	1.12	.77
5360	4½	2 13/32x27/32x2 21/32	10	.65	.45
A3BPX	4½	1 31/32x23/32x2¼	6	1.85	1.24
W5BP	7½	2 31/32x23/32x1⅜	6	1.93	1.29

PHOTO-FLASH CELLS

120	1½	1 (di.) x 1 15/16	12	.20	.13
220	1½	1 11/32 (di.) x 2 25/64	12	.20	.13
920	1½	35/64 (di.) x 1 31/32	24	.15	.0975
U15PF	22½	31/32x9/16x1 31/32	1	1.25	.87
Y15	22½	19/32x19/32x1 31/32	1	1.25	.87
U10	15	1x39/64x1 7/16	1	.95	.65
U20	30	1x39/64x2 17/32	1	1.50	1.03
XX45	67½	2¾x1 11/32x3 43/64	6	2.95	2.07
N60	90	3 11/16x1 9/32x3 19/32	6	3.60	2.52
XX150	225	4¼x2⅝x4¼	1	11.16	7.44
U160	240	2 9/16x1 5/16x4 13/32	1	7.95	5.56
N150	225	3 9/16x2¾x4¾	1	7.95	5.56
D3	4½	3⅞x1 5/16x2 15/16	6	.75	.53
K45	67½	2 11/16x1 5/16x2¼	6	2.75	1.93
M30	45	3 9/16x1¾x5½	6	2.75	1.93

IGNITION, TELEPHONE AND PROTECTIVE SYSTEM BATTERIES

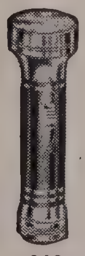
4FH	1½	2⅝x2⅝x4	12	.90	.60
4F2H	3	3 29/32x2 11/16x5 13/32	8	1.55	1.09
4F4H	6	8 5/16x2 13/16x5 13/16	6	3.60	2.45
4F5H	7½	7 3/16x3 31/32x5 13/16	4	4.50	3.13
4F6H	9	8½x3 31/32x5 13/16	4	5.20	3.62
6 Ign.	1½	2½ (di.) x 6⅝	12	.90	.60
6 Tele.	1½	2½ (di.) x 6⅝	12	.85	.59
6 Alarm	1½	2½ (di.) x 6⅝	6	.95	.66
S461	6	10½x2¾x7 13/32	6	3.75	2.51

FLASHLIGHT AND LANTERN BATTERIES

2	1½	1 21/64 (di.) x 2⅜	48	.15	.0975
1	1½	63/64 (di.) x 1 15/16	12	.15	.0975
Z	1½	35/64 (di.) x 1 31/32	24	.125	.08
7	1½	13/32 (di.) x 1¾	24	.125	.08
N	1½	7/16 (di.) x 1 11/64	24	.10	.065
F4H	6	2⅝x2⅝x3 15/16	12	.90	.61
4F2H	3	3 29/32x2 11/16x5 13/32	8	1.55	1.09
530	45	4 1/16x2 17/32x5 5/16	2	3.40	2.35
**TW1	6	5⅜x2⅞x4 15/16	6	2.45	1.63

*In unit package. **For use with Radar-Lites.

FLASHLIGHT CASES AND LANTERNS
(LESS BATTERIES)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TW3

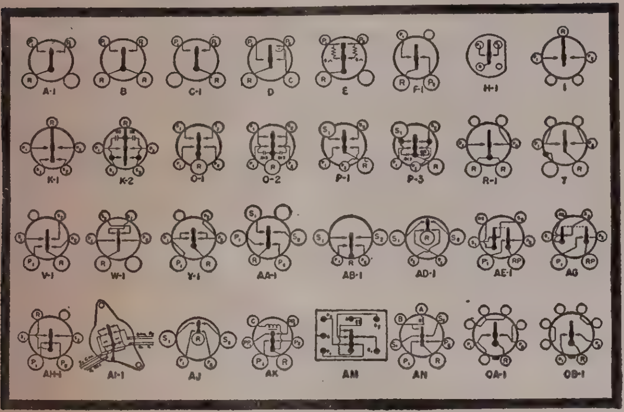
152

Burgess No.	Description	Unit Pkg.	List Price	Net* Each
146	2-cell, prefocused, maroon and chrome	6	$1.89	$1.26
346	2-cell baby prefocused. Same colors	6	1.70	1.13
250	2-cell focusing Range-finder. Chrome	4	2.25	1.53
152	Penlight. Chrome	12	.88	.59
TW3	Radar-Lite (with Flasher), Spotlight Beam	1	9.50	5.70
TW4	Radar-Lite (without Flasher), Spotlight Beam	1	6.95	4.15
TW5	Radar-Lite (with Flasher), Diffused Beam	1	9.50	5.70
TW6	Radar-Lite (without Flasher), Diffused Beam	1	6.95	4.15

*Standard package.

Radiart Vibrators

RADIART BASE DIAGRAMS



SYMBOLS USED IN VIBRATOR BASE DIAGRAMS

A—Hot line into vibrator. **B**—By-pass for driving point. **C**—External coil lead in shunt vibrator. **P_1**—Primary contact. **PP_1**—Dual primary contact, closed when P_2 is closed. **P_2**—Primary contact. **PP_2**—Dual primary contact, closed when P_2 is closed. **R**—Vibrating reed. **RP**—Primary vibrating reed in split-reed vibrators. **RS**—Secondary vibrating reed. **S_1**—Secondary contact, closed when P_1 is closed. **S_2**—Secondary contact, closed when P_2 is closed.

RADIART VIPOWER VIBRATOR POWER SUPPLIES

Rated to deliver stated voltage at full rated load. Completely filtered. Output lines filtered to hum level of 50 mv or less, within range of 160 kc to 20 mc. All vipowers incorporate heavy duty moisture-sealed vibrators. All components securely anchored against vibration. Copper plating protects against rust. Models 451, 2, 3 and 7 furnished with input and output plugs, no cable.

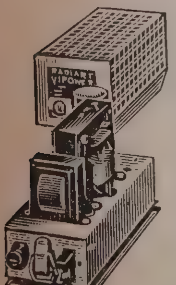
DC to AC Conversion—110 Volt, 60 Cycle Output.

Radiart No.	Application	DC In.	Watts Out.	Size Inches	Net Each
6R5	Automotive	6	50	6¾x 7¾x5⅞	$28.95
6R10	Automotive	6	100	7 x12⅝x7½	41.07
12R8	Marine, Bus,	12	80	6¾x 7¾x5⅞	28.95
12RU15	and Trailer	12	150	7 x12⅝x12½	54.48
32R8	Farm and	32	80	6¼x 7⅝x5⅞	33.48
32RU15	Marine	32	150	6⅜x12⅜x7½	50.73
110PA5	Phonograph	110	50VA	3¾x 6¼x2¾	10.32
110PB5	Motors	110	50VA	3¾x 6¼x2¾	11.70
110R10	Radio and	110	100	6⅜x 7¾x5¼	27.57
110RA15	Bus. Mach.	110	150	6¾x 7¾x5⅞	33.66
110RT15	For TV	110	150	6⅞x12¼x7½	44.85
110RT35	Control	110	350	7½x14 x8⅝	86.10

"BATRYPOWER"

Smooth DC power—6 or 12 volts—from 110 volt AC line.

Radiart No.	Output	Watt	Size, Inches	Wt., Lbs.	Net Each
110BA12	6V DC @ 20A 12V DC @ 10A	120	7⅝x13 x8½	24½	$59.01



SUPER VIPOWERS

NEW! Easily detachable cover. Built in RF and AF filters. New snap-on detachable base. Quick removal for service or replacement by opening one snap latch.

Rad. No.	DC Input	DC Output	Out. Mills	Rect.	Net Each
451	6/12	250/180	60/40	Self	$21.39
452†	6	300*	100	Self	23.46
453†	6	300*	100	0Z4A	24.84
454	6	300	200	2,0Z4A	35.88
455†	6	400	150	2, 6X5	35.88

*Tapped at 275 v., 250 v., 225 v.
†12 volt models available on special order.

Radiart No.	Mounting Dimensions x Overall Size, In.			Approx. Net Wt., Lbs.
	Width	Height*	Depth	
451	2⅛x3¼	5⅜	5¼x 8	4.5
452	2½x3½	5⅝	6⅛x 9⅜	7.5
452-12	2½x3½	5⅝	6⅛x 9⅜	7.5
453	2½x3½	5⅝	6⅛x 9⅜	7.5
453-12	2½x3½	5⅝	6⅛x 9⅜	7.5
454	4 x5⅛	6⅝	7½x10⅜	15.5
454-12	4 x5⅛	6⅝	7½x10⅜	15.5
455	4 x5⅛	6⅝	7½x10⅜	15.5
455-12	4 x5⅛	6⅝	7½x10⅜	15.5
456	4 x5⅛	6¾	5 5/16x 8	16.5
457	1⅝x2¾	5¼	4½x 7	3.5

*Overall height only.

A SIGNIFICANT IMPROVEMENT IN VIBRATOR DESIGN

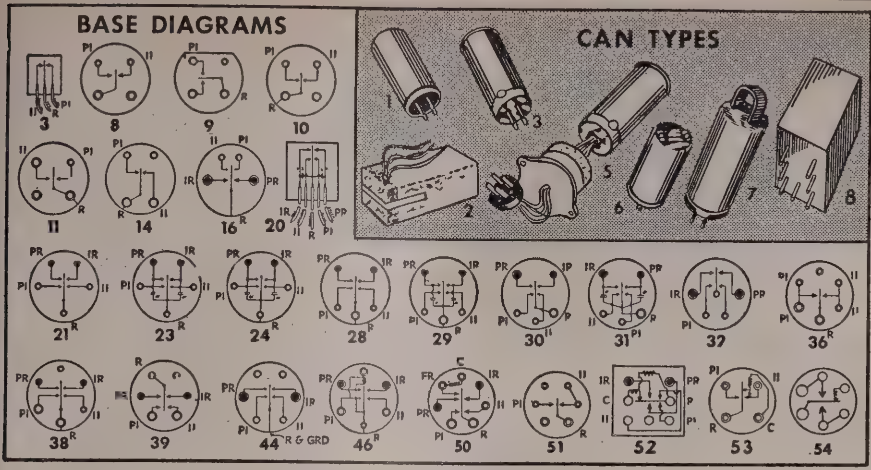
RADIART VIBRATOR TYPE 5300 INPUT 6 VOLTS BASE DIAGRAM A THE RADIART CORP.
02

A vibrator which can remain on the shelf or inactive indefinitely, and start instantly—every time! Radiart's engineering proved that the ideal vibrator is one which operates in a vacuum or, even better, in a hermetically sealed gas chamber. Now, the regular low-priced Radiart line is also sealed—not hermetically—but effectively against air and moisture seepage, preventing point oxidation and ensuring longer, more dependable operation under conditions which lick ordinary vibrators. Every Radiart vibrator now incorporates the Red Seal. Look for it. It means that bakelite, sponge rubber and metal members are assembled under great pressure, to exclude air and moisture and avoid oxidation of contacts. A simple improvement that revolutionizes vibrator performance.

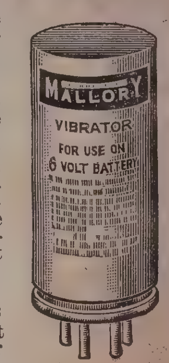
Vibrator No.	Volts	Base Dia.	Size, Inches	Net Each
5300	6	A-1	1½ x 3⅛	$2.82
5300-32	32	A-1	1½ x 3⅛	4.29
5301	6	A-1	1½ x 2⅞	2.82
5303	6	F-1	1⅝ x 3 9/16	2.94
5304	6	I	1¼ x 3⅛	3.81
5307	6	A-1	1½ x 3⅛	2.94
5308	6	E	1½ x 3⅛	3.81
5309	6	C-1	1½ x 2½	2.94
5314	6	A-1	1¼ x 2⅝	2.94
5320	6	A-1	1 15/16 x 3½	2.94
5321	6	A-1	1⅝ x 3 9/16	2.94
5323	6	A-1	1⅜ x 4¾	2.49
5326	6	A-1	1½ x 2⅞	2.49
5331	6	C-1	1½ x 3⅛	2.94
5333	6	F-1	1½ x 3⅛	2.94
5335	6	F-1	1½ x 3	2.94
5342	6	A-1	1½ x 2⅞	2.49
5343	6	B	1 15/16 x 4½	3.81
5363	6	Leads	1½ x 1⅜ x 2⅜	3.81
5366	6	R-1	1¼ x 3⅛	3.81
5370	6	A-1	1½ x 3⅜	2.94
5400	6	AB-1	1½ x 3⅛	4.62
5404	6	AH-1	1½ x 3⅛	4.62
5406	6	AD-1	1½ x 3⅛	4.62
5407	6	AB-1	1½ x 3⅛	4.62
5408	6	AB-1	1½ x 2⅞	4.62
5409	6	K-1	1½ x 3⅛	4.62
5410	6	O-1	1½ x 3⅛	4.62
5411	6	V-1	1½ x 3⅛	4.62
5413	6	K-1	1 15/16 x 3½	4.62
5416	6	K-2	1 15/16 x 4½	5.49
5421	6	V-1	1 15/16 x 3½	4.62
5422	6	AE-1	1½ x 3⅛	5.13
5425	6	O-2	1 15/16 x 4½	5.49
5426	6	P-1	1 15/16 x 3½	4.62
5429	6	P-3	1 15/16 x 4½	5.49
5431-4	4	AG	1½ x 3⅛	5.13
5435	6	V-1	1⅜ x 3⅛	4.62
5435-4	4	V-1	1⅜ x 3⅛	4.62
5437	6	AB-1	1⅜ x 2¾	4.62
5438	6	AB-1	1½ x 3⅛	4.62
5440	6	AB-1	1 15/16 x 4½	5.13
5454	6	AD-1	1½ x 2⅞	4.62
5463	6	Leads	No Case	5.49
5464	6	AI-1	1 15/16 x 4½	5.49
5468-2	2	AM	1½ sq. x 2⅛	6.42
5469-2	2	AN	1 15/16 x 2⅛	5.88
5503-12	12	A-1	1½ x 3⅛	4.62
5504	6	Y-1	1 15/16 x 3½	3.81
5506	6	D	1½ x 3⅛	4.29
5510	6	OA-1	1½ x 3⅛	4.29
5511-12	12	OB-1	1½ x 3⅛	4.62
5513	6	AK	1½ x 3⅛	5.82
5513-12	12	AK	1½ x 3⅛	4.62
5514-4	4	A-1	1½ x 2⅞	4.62
5515	6	A-1	1½ x 3⅛	4.14
5516	6	A-1	1½ x 3⅛	4.14
5517-12	12	V-1	1½ x 3⅛	4.62
5518	6	V-1	1½ x 2⅞	4.14
5519	6	A-1	1½ x 2⅞	2.94
5560	6	A-1	1½ x 3⅛	5.13
5604	6	K-2	1 15/16 x 4½	5.49
5605	6	AD-1	1½ x 3⅛	5.13
5605-12	12	AD-1	1½ x 3⅛	5.97
5605-32	32	AD-1	1½ x 3⅛	5.97
5607	6	AJ	1⅜ x 2¾	5.13
5607-12	12	AJ	1⅜ x 2¾	5.97
5609-12	12	K-1	1½ x 3⅛	5.97
5610	6	V-1	1¼ x 3¼	4.62
5610-12	12	V-1	1¼ x 3¼	5.13
5614-12	12	AD	1½ x 2⅞	5.13
5615-12	12	V-1	1½ x 2⅝	5.13
5615-24	24	V-1	1½ x 2⅝	5.13
5616	6	AJ	1½ x 2⅞	5.13
5616-12	12	AJ	1½ x 2⅞	5.97
5620-S	6	AB-1	1½ x 2⅞	4.62
5621	6	V-1	1½ x 2⅞	4.14
5622-S	6	AE-1	1½ x 2⅞	5.13
5623	6	AD-1	1½ x 2⅞	4.62
6326	12	A-1	1½ x 2⅞	3.30
6330	12	DA	1½ x 3⅛	2.94
6370	12	A-1	1½ x 3⅛	2.82

WRITE FOR LATEST VIBRATOR REPLACEMENT AND SUBSTITUTION GUIDE

Vibrators and Buffer Condensers



P. R. MALLORY & CO. Inc.
MALLORY

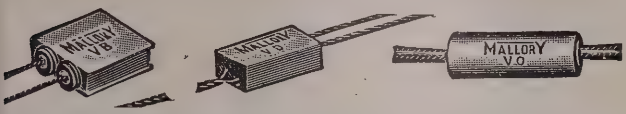


Mallory Vibrators are assembled from carefully matched materials built to extremely close tolerances assuring perfect balance and precise operation. Crude rubber insulation and heavy cans effectively deaden sound and vibration. Every Mallory vibrator is tested for output, starting voltage and wave form. If Mallory type number is not known refer to diagram at left or write for

VIBRATOR GUIDE, 15c

FREE when request is included with order for Mallory Vibrators.

VIBRATOR BUFFER CAPACITORS

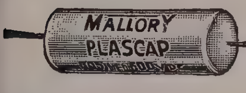


Type VB is oil impregnated and housed in small rectangular metal case. Section is insulated from case. Type VD is dual wax impregnated unit in small rectangular waxed cardboard case. Type VO is wax impregnated and filled in oval waxed tube. Leads on types VB and VD are bare tinned copper. Type VO has heavy copper braid leads. Shipping weight, 3 oz.

Mallory Number	Cap. Mfd.	Working Volts D.C.	Size W-L-H	Net Each
VB470	.0075	1600	5/16 x ⅝ x ⅞	**$0.66**
VB471	.01	1600	5/16 x ⅝ x ⅞	**.69**
***VD491**	.0008–.0008	1600	5/16 x ⅝ x 1 1/16	**.39**
VO480	.5	120	7/16 x ¾ x 2⅛	**.39**

*Replacement for Motorola models using dual .0008 at 1600 Volts.

1600 VOLT PLASKAP CAPACITORS



Triple sealed plastic tubular capacitors. Unique impregnant results in stable capacity, low power factor and high insulation resistance over a wide range of temperatures.

Will operate continuously at 85° C. Two bare tinned copper leads are sealed by MALLOCENE. Each lead is fastened directly and solidly to the cartridge. Lead to outside foil is clearly marked. Mounting by the leads is adequate due to the capacitor's small size, light weight and mechanical strength. If desired, TH clips of applicable size may be used. Yellow case, legible part numbers and ratings.

Mallory No.	Cap., Mfd.	Size, Ins. Dia.	Size, Ins. Lgth.	Net Ea.
PT1621	.001	⅜	1	**33c**
PT1622	.002	⅜	1	**33c**
PT16222	.0022	⅜	1¼	**33c**
PT1623	.003	⅜	1¼	**33c**
PT16233	.0033	⅜	1¼	**33c**
PT1624	.004	⅜	1¼	**33c**
PT16247	.0047	⅜	1¼	**33c**
PT1625	.005	⅜	1¼	**33c**
PT1626	.006	7/16	1¼	**33c**
PT1627	.007	7/16	1¼	**33c**
PT16275	.0075	7/16	1¼	**33c**
PT1628	.008	7/16	1¼	**36c**
PT1611	.01	½	1¼	**36c**
PT16115	.015	½	1½	**36c**
PT1612	.02	½	1½	**36c**
PT16122	.022	⅝	1⅞	**36c**
PT1613	.03	⅝	1⅞	**36c**
PT1614	.04	⅝	1⅞	**42c**
PT1615	.05	⅝	1⅞	**42c**
PTD-16115*	.015	⅝	1⅞	**48c**
PTX-10035	.0005/10000 v. DC	⅝	1⅝	**90c**

*Two sections, .015 mfd. each.

MALLORY VIBRATOR DEALS

Service 75% of replacement needs. Simplifies inventory control provides extra space. Cabinets firmly stack together. Metal cabinet at no extra cost. Either deal contains two each of the following Buffers: PT1611, PT1625, PT1626, PT1627, PT1628 and PT16275.

Mallory Deal No. 2448—Includes capacitors and one each 4548, 716, 859, 870, 1100 and three 859 vibrators. Net Each... **$25.83**

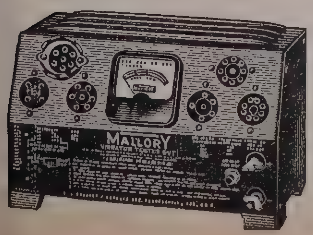
Mallory Deal No. 2450—Includes above capacitors and one each 4548, 870, 1100, 4501 and three 859 vibrators. Net Each. **$26.85**

COMPLETE VIBRATOR SPECIFICATIONS

Mallory No.	†	Volts	Type	Base Diag.	Can Type	Size, Inches	Net Each
245*	1	6	Syn.	21	1	1½ x 3¼	**$4.62**
247	......	6	Syn.	46	1	1½ x 3¼	**4.62**
G4548	......	12	Syn.	44	1	1½ x 3¼	**5.13**
271HD	......	6	Syn.	24	1	2 x 4½	**5.49**
273D	......	6	Syn.	31	1	2 x 4½	**5.49**
294	......	6	Int.	8	1	1½ x 3¼	**2.94**
F294	1	32	Int.	8	1	1½ x 3¼	**4.29**
298	......	6	Int.	51	1	1½ x 2⅞	**3.81**
505P	......	6	Int.	8	1	1 15/16 x 3½	**2.94**
509P	......	6	Int.	8	1	1½ x 2⅞	**2.49**
716*	......	6	Syn.	30	7	1 15/16 x 3½	**4.62**
725C	1, 2	6	Syn.	32	1	1½ x 3¼	**5.13**
G725C	1, 2	12	Syn.	32	1	1½ x 3¼	**5.97**
742	......	6	Syn.	32	1	1½ x 2⅞	**4.62**
743	......	6	Syn.	38	1	1¼ x 3¼	**4.62**
748	......	6	Syn.	44	1	1½ x 2⅞	**4.62**
G749C	1, 2	12	Syn.	21	1	1½ x 3¼	**5.97**
W759	3	4	Syn.	21	1	1½ x 2⅞	**4.95**
825C	1, 2	6	Int.	8	1	1½ x 3¼	**4.14**
826C	1, 2	6	Int.	8	1	1½ x 3¼	**3.81**
F826C	1, 2	32	Int.	8	1	1½ x 3¼	**4.62**
G826C	1, 2	12	Int.	8	1	1½ x 3¼	**4.62**
854*	......	6	Int.	11	1	1½ x 3¼	**2.94**
859*	1	12	Int.	8	1	1½ x 2⅞	**2.82**
G859	......	4	Int.	8	1	1½ x 2⅞	**3.30**
W859	3	6	Int.	8	1	1½ x 2⅞	**2.94**
870*	......	12	Int.	14	1	1½ x 2⅞	**2.94**
G874/ G883*	......	6	Int.	55	9	1½ x 3¼	**4.14**
903M	......	6	Int.	8	1	1½ x 2⅞	**2.49**
953W	......	6	Syn.	16	1	1½ x 3¼	**4.62**
954	......	6	Syn.	39	1	1½ x 3¼	**4.62**
1100*	1	6	Int.	8	1	1 5/16 x 2⅜	**2.94**
T4002	......	2	Syn.	52	8	1½ x 2⅛ x 1½	**6.42**
T4003	......	2	Syn.	50	1	1 5/16 x 2⅛	**5.88**
4501	......	6	Int.	53	1	1½ x 2⅞	**3.81**
G4501	1	12	Int.	53	1	1½ x 2⅞	**4.14**
M4501*	......	24	Int.	53	1	1½ x 2⅞	**4.14**
4502	......	6	Int.	54	1	1½ x 2⅞	**4.14**
4512	......	6	Int.	54	1	1½ x 2⅞	**4.14**
4513	......	6/12	Int.	56	1	1½ x 2⅞	**4.14**
4514	......	6	Int.	53	1	1½ x 2⅞	**4.14**
4546*	......	6	Syn.	38	1	1½ x 3¼	**4.62**
4548*	......	6	Syn.	44	1	1½ x 3¼	**4.62**
4549*	......	6	Syn.	32	1	1½ x 3¼	**4.62**
G4549	......	12	Syn.	32	1	1½ x 3¼	**5.13**
GC7	4	Ground Cup					**.27**
AR-1	5	Adapter					**.90**
SK-1	6	Socket Kit					**1.25**
VP-1	7	Vibrator Puller					**1.65**

†—**1:** For new equipment design only, other types for replacement purposes only. **2:** Hermetically sealed. **3:** Designed for photoflash applications. **4:** A grounding cup for 1½″ dia. vibrators which makes low RF ground between vibrator can and power supply. **5:** Five special sockets for Practical Vibrator tester. Supplied as complete kit only. *—These types cover 90% of all replacement needs. **Int.**—Interrupter. **Syn.**—Synchronous.

MALLORY 6 VOLT VIBRATOR TESTER



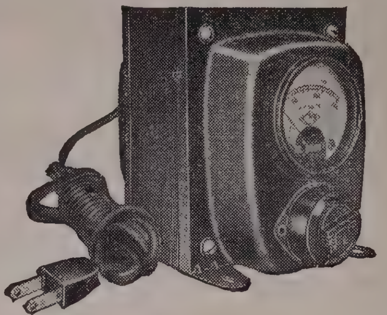
As either 6X5 or OZ4 rectifier tubes may be plugged into an octal socket on the front panel, interrupter vibrators can be tested in conjunction with the rectifier tube with which they normally work. Defective vibrators can be readily determined by the substitution method. Self-rectifying vibrators are tested by removing the rectifier tube. Either shunt or separate drive vibrators of any frequency from 100 to 250 cycles can be tested. The 6VT1 Tester should be used in conjunction with a filtered DC power supply providing at least 4 amps. continuous capacity with a closely adjustable DC output voltage control (1/10 volt steps or less from 5 to 6 volt). A push button switch is provided to accurately adjust the DC input voltage for both "start" and "condition" test. Upon satisfactorily passing the "start" test, the condition of the vibrator (or rectifier tube) being tested is readily determined by reading directly on "Good-Bad" meter scale. 6¾″ x 10⅜″ x 5½″ deep. Shipping Weight, 8 lbs.

Mallory Model 6VT1—Tests 6 volt vibrators. Net Each.. **$29.50**

Power Supply Equipment

ACME ELECTRIC ADJUSTOR AND STABILIZER

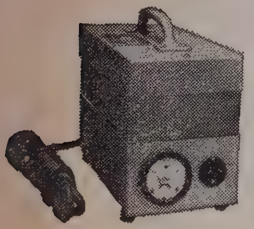
MODEL 8394M VOLTAGE ADJUSTOR



Allows good TV reception under conditions where voltage drop or variation from such causes as the starting of motors, electric heaters and even the snap of ordinary light switches results in dimness, flickering, "snow" and other peculiar fluctuations. Low voltages can be brought up to normal, or an over-voltage condition may be reduced to normal as the case may require. Voltage Range: 95-100-110-115-120-125. Capacity: 300 VA. Calibrated voltmeter indicates secondary voltage. Tested at ten times normal working voltage for insulation breakdown. Height 4¾", Width 4", Depth 5". Weight 5 lbs.

Model T-8394M—Voltage Adjustor, with 8-foot cord and plug. Net Each. **$11.55**

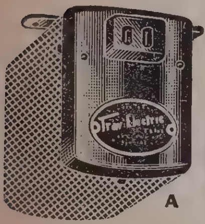
MODEL T-18110 AUTOMATIC VOLTROL



Compact voltage stabilizer designed especially for use with television receivers and other electrical appliances requiring an unvarying voltage supply to maintain their best performance. Fluctuation of incoming voltage over a range from 95 to 130 volts is automatically corrected to 115 volts plus or minus 3% when operated within its normal rated capacity. Operation is noiseless and completely automatic. Under no-load, primary circuit is disconnected by a built-in relay which automatically connects circuit when load is applied to the secondary circuit. Secondary voltage is indicated on voltmeter while unit is in operation. Furnished with primary cord and plug, built-in secondary receptacle and carrying handle.

Model T-18110—300 VA Cap., for 60 cycles. Net Each.................................. **$33.60**

TERADO MOBILE CONVERTERS, RELAYS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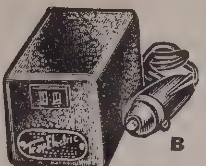
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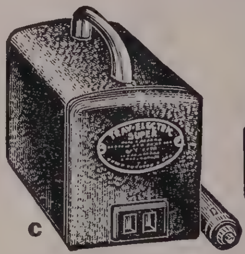
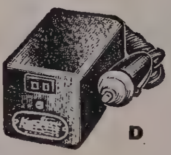

C


D

MODEL 6-81160 "CHIEF" (FIG. A)

Converts DC auto battery voltage to 110 volt, 60 cycle AC with a capacity of 75 to 100 watts with the 6-volt model and 100 to 125 watts with the 12-volt model. Will operate tape and wire recorders, office machines, P.A. systems, electric drills, small vacuum cleaners, etc. Has automatic On-Off switch. Easily mounts under dash.

Terado Model 6-81160—6-volt Converter. Net Each.......... **$33.30**

Terado Model 12-81160—Same but for 12-volt systems. Net Each...... **$36.64**

MODEL 6-1160 "SENIOR" (FIG. B)

Changes 6 volts DC to 110 volts, 60 cps Maximum capacity, 35-40 watts. Just plug into cigarette lighter for operation (in your car) of phonographs, turntables, radios, etc. Shipping Wt., 3 lbs., 2 oz.

Terado Model 6-1160—Net Ea. **$11.97**

Terado Model 12-1160—Same, except operates on 12 v., DC. Net Each **$11.97**

MODEL 6-110 "JUNIOR" (FIG. B)

Converts DC auto battery voltage to 110 volts, 115 cycle AC. Will operate radios, incandescent lights and some test equipment (resistant loads). 6-volt model has 30-40-watt capacity; 12-volt model has 40-50-watt capacity. Plugs into cigarette lighter. 2½" x 2½" x 4½".

Terado Model 6-110—6-volt Converter. Net Each............ **$8.64**

Terado Model 12-110—Same, but for 12-volt systems. Net Each....... **$9.97**

MODEL 6-51160 "MASTER" (FIG. C)

Similar to the "Super", but has a capacity of from 40 to 50 watts for operating small dictating machines, portable phonographs, turntables and test equipment. Plugs into cigar lighter to convert 6-volt car current to 110-volt 60-cycle AC. Size 4" x 5" x 6".

Terado Model 6-51160—Net Each...................... **$18.33**

Terado Model 12-51160—Same, but operates on 12 v. DC. Net........ **$21.67**

MODEL 6-71160 "SUPER" (FIG. C)

Converts 6 volts DC (car battery) to 110 volts 60 cps. Capacity, 60 watts continuous, 75 watts, intermittent. Designed to plug into cigarette lighter of your car. For operation, in your automobile, of wire recorders, dictating machines, portable phonographs, all makes of radios in cars, boats, planes, etc. Perfect for operation of radio test equipment and other types of field apparatus. Will also permit operation of small electric drills, electric shavers and 110 volt fluorescent and incandescent lamps. Shipping Weight, 8 lbs.

Terado Model 6-71160—Net Ea. **$25.30**

Terado Model 12-71160—Same as above, but operates on 12 v., DC. Net **$28.63**

MODEL 6-11160 "MIDGET" (FIG. D)

Just plug into any auto cigarette lighter to operate any electric shaver. A little larger than a pack of cigarettes. Shipping Weight, 2 lbs., 2 oz.

Terado Model 6-11160—Net Ea.. **$7.97**

Terado Model 12-11160—Same, except for 12 v. battery. Net Each.......... **$7.97**

SERIES 6000 MICRO-RELAYS

Series 6000 Micro-Relays are hermetically sealed relays available in resistances up to 10,000 ohms. Single-pole-double-throw switch is rated 1 ampere/1,000,000 operations at a 24-volt noninductive load; greater load capacity at fewer operations. Operating power, 60 milliwatts. Operating temperatures −55° to +85° C. Coined silver contacts. Insulation: 500 volt at any terminal to ground. Excellent vibration characteristics due to short armature. Base fits 7-pin miniature tube socket. Size ¾" x 1 11/16".

Coil Resistance	Net Each
100-1800 ohms	$5.60
1801-3400 ohms	5.70
3401-5200 ohms	6.00
5201-8000 ohms	6.35
8001-10,000 ohms	6.60

ELECTRO PRODUCTS LABS

NEW MODEL "EF" POWER SUPPLY

Virtually unlimited in operation and testing of equipment that requires DC power. Completely variable voltage makes possible testing of all equipment under almost any voltage input condition. **Dual Range:** 0-28 v., 0-14 v., 0-5 amps. continuous rating (less than 1% ripple), 10 amps. intermittent rating. **Power:** 115 v., 50-60 cps input; 265 watts at 28 v., 5 amps. Choke input and Pi type filters with two chokes and two 2,000 mfd condensers. D'Arsonval-type voltmeter and ammeter: 0-50 v., 2%, and 0-6 amps., 2% accuracy. Bridge-type selenium rectifiers. Heavy duty control transformer for incremental voltage adjustment.

EPL Model "EF"—Net Each... **$84.50**

MODEL "E" POWER SUPPLY

Same as Model "EF" except for: 5% AC ripple at 5 amps.; 1 choke and one 2,000 mfd., 50 volt condenser.

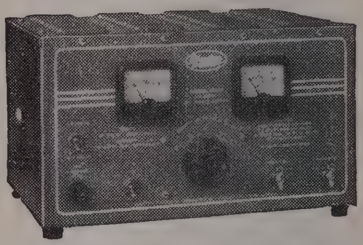
EPL Model "E"—Net Each.... **$73.50**

MODEL "S" ELIMINATOR

Converts battery radios to AC all-electric operation. Operates 1.4 v., 4-6 tube battery radio from 115 v., 50-60 cps source. Complete hum-free filtering.

EPL Model "S"—Net Each....**$12.20**

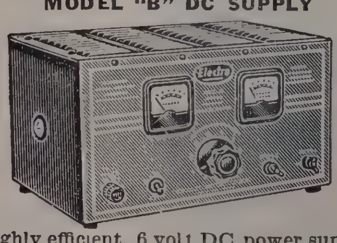
MODEL D-612 DC SUPPLY



6 to 12 volts at the flick of a switch. Dual range of 0-8 volts and 0-16 volts. Delivers 10 amperes continuous duty up to 12 volts and 20 amps intermittent current rating. Less than 5% AC ripple over all rated ranges. Superior regulation and filtering by choke, input type filter. Patented EPL conduction cooling produces many more times cooling surface than standard selenium plates. Provides greater margin of safety, longer rectifier life and greater current carrying capacity. Ammeter registers 0-10 amps, and voltmeter 0.20 volts. Sturdy 8 x 12 x 8½" 18 gauge steel cabinet in blue hammerloid finish. Operates on 110-120 volt, 50-60 cycle AC input at 250 watts with 10 amp, 12 volt load. Shipping Weight, 22 lbs.

EPL Model D-612—Net Each.. **$39.95**

MODEL "B" DC SUPPLY



Highly efficient, 6 volt DC power supply. Ends worry, mess, uncertainty of storage batteries. Delivers 6 volts continuous from 1 to 20 amps Intermittent rating up to 35 amps. Supplies 3 to 9 volts at other loads. Voltmeter 0-10 volts 3% accuracy and ammeter 0-20 amps., 5% accuracy. Readily accessible fuse. 18 Ga. steel cabinet finished in blue Hammerloid. Size: 12" x 7" x 8½". Shipping Weight 32 lbs.

EPL Model "B"—Net Each.... **$49.80**

MODEL "N" DC POWER SUPPLY

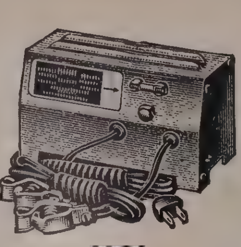
Provides a filtered DC supply with a continuously variable source of from 0 to 28 volts for all currents from 1 to 15 amperes Intermittent loads up to 25 amps can be obtained. Exact current and voltages on D'Arsonval-type meters. Low AC hum or ripple; 8% at 15 amps, 5% at 10 amps. Single control, 115v. 50/60 cycle input, 730 watts. 14¼" x 14¼" x 9¾". Net Weight, 65 lbs. Net Each **$175.00**

MODEL "NF" SUPPLY

This Model is the same as Model N, except that the ripple at 15 amps is less than 1%. Net Ea. **$195.00**

Mallory Chargers, Power Packs

BATTERY CHARGERS

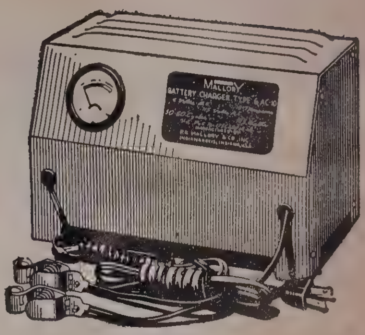

6AC4

6AC6

Mallory battery chargers provide convenient, efficient and economical charging of any storage battery used in ignition systems and in radio power supplies. Taper charging is designed into all Mallory chargers. These units may also be used as low voltage power supplies. Made in five models covering completely, the charging field from battery boosters to fast chargers. Conservatively designed with protected circuits and meters wherever required, battery clips, ample AC and DC leads provided. All models designed for operation on 115-volt 60-cycle AC lines and are completely portable. The heart of these units is the Mallory Magnesium-Copper Sulfide all-metal rectifier, which is unaffected by temperature, able to withstand considerable abuse, and is self-healing.

Mallory No.	Nom. Bat. DC Volts	Max. Charge Rate DC Amps.	Tapered Rate DC Amps.	Size, Inches H	W	L	Shipping Weight, lbs.	Net Each
6AC4	6	4	2	4 7/16	7 3/8	3 5/16	4 3/4	$11.30
6AC6	6	6	4	4 7/16	7 3/8	3 5/16	7	15.30
6AC10	6	10	7	6	8	4 1/4	12 1/4	23.28
12AC5	12	5	3	6	8 1/4	4 1/4	10 3/4	25.30
6AC75*	6–8	75	. . .	15	6 1/2	7 1/4	34	109.50

*Fan cooled with 6-position charge control switch and cable rack.


6AC10

CHARGER ACCESSORIES

Mallory No. R-652—polarized dash receptacle and plug. Fits all models except 6AC75. Net Each........ $1.20

Mallory No. R-655—Charger plug used as convenient means of charging car battery through cigarette lighter socket Net Each.................... $1.20

NEW MALLORY CHARGERS WITH SELENIUM RECTIFIERS

These new units are smaller in size, less bulky and provide greater portability and increased operating efficiency. Both models are supplied with a 6-foot rubber covered line cord. The special universal output socket accommodates either the R-670 output cable or the R-675 cable, both of which are listed in table below. Neither model is supplied with output cable.

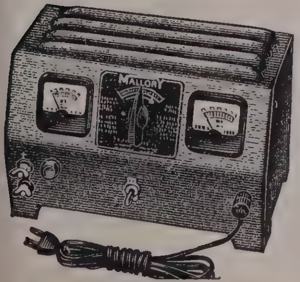
Model No.	Nom. Battery DC Volts	Max. Charge Rate, DC Amps	Tapered Rate DC Amps	Approx. Charge, Amp-Hrs., in 1 Hr.	6 Hrs.	10 Hrs.	14 Hrs.	Max. Cont. DC Amps as Pwr. Suppl.	Charging Indicator	Dimensions H x W x D, in Inches	Net Each
6SAC4	6	4	2	. .	20	30	42	3	None	4 5/8x4 1/4x4 3/8	$10.00
12SAC5	12	5	3	. .	25	40	56	4	Light	7 7/8x6 1/2x5 3/4	24.00
R-670	Output Cable, Equipped with Battery Clips..........										1.30
R-675	Output Cable, Equipped with Cigarette Lighter Plug..........										1.49

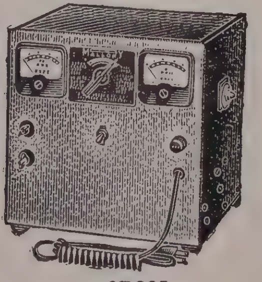
Mallory Magnesium-Copper Sulphide rectifiers are rugged, dependable units for applications requiring low DC voltages at medium and high currents such as battery eliminators and chargers, electroplating, DC filament voltage supplies, solenoid and relay operation etc. All metal in construction, not sensitive to temperature, withstand a great deal of abuse, operate from —90° to +265°F. Rectifying film self healing. These rectifiers are available in either foot, bolt, or stud mounting. Universal mounting hardware provided wherever possible or practical. To designate the type of mounting hardware provided, the following prefixes are placed before the stock No.: **IB** for insulated bolt; **B** for grounded bolt; **F** for grounded foot; **IF** for insulated foot; **IS** for insulated stud. **P** suffix designates reverse polarity stacking. Center terminal is DC positive: **J** suffix designates universal construction with loose mounting feet for foot, bolt, or stud mounting. All rectifiers are single phase, full wave, bridge type.

MAGNESIUM-COPPER SULFIDE RECTIFIERS

Mallory No.	Max. AC Volts No Load	Max. AC Volts Full Load	Approx. DC Volts Ind. Load	Res. Load	Cap. Battery Load	Max. DC Amps Con. Duty	Int. Duty	Size Inches L	W	H	Net Each
IB4R	3.6	3.2	1.5	1.7	2.5	1.5	5.0	1	9/16	7/8	$1.60
IB8R	7.2	6.4	3.1	3.4	5.1	1.5	5.0	1 3/8	9/16	7/8	1.90
IB12R	10.8	9.7	4.8	5.2	7.8	1.3	5.0	1 3/4	9/16	7/8	2.16
IB12L5	10.8	9.7	4.5	5.0	7.6	4.5	15.0	2 1/2	2 1/8	2 5/8	3.90
IB12C1J	10.8	9.8	4.6	5.1	7.7	3.2	24	2 3/4	1 1/4	1 5/8	4.36
IB12C3	10.8	9.7	4.5	5.0	7.6	4.5	24	2 3/4	1 3/4	2 1/8	4.53
IB12C5	10.8	9.7	4.5	5.0	7.6	5.3	24	3	2 1/8	2 5/8	4.93
F16C3	14.4	13.0	6.1	6.8	10.2	3.9	24	3	1 3/4	2 1/8	5.89
1F16CB7M	14.4	12.8	5.9	6.6	9.9	6.0	24	3	2 1/2	3 3/16	6.79
F20C7	18.0	16.2	7.6	8.4	12.6	4.8	24	4 3/8	2 1/2	3 3/16	8.49
IS24C7J	21.6	19.4	9.0	10.1	15.1	4.0	24	4 3/4	2 1/2	3 3/16	8.39
IS24B9	21.6	19.1	8.5	9.6	14.4	11.0	24	7 1/2	3 1/2	4 1/4	11.95
IS28C7J	25.2	22.7	10.7	11.7	17.8	4.3	24	6	2 1/2	3	10.19
F16HIP	14.4	13.1	6.3	7.0	10.4	2.2	24	2 1/4	1 1/2	2	4.70
F20HIP	18.0	16.4	7.9	8.7	13.0	2.0	24	2 3/4	1 1/4	2	5.76
F24HIP	21.6	19.7	9.6	10.4	15.7	1.9	24	3	1 1/4	2	6.86
F28HIP	25.2	23.0	11.2	12.2	18.4	1.7	24	3 1/4	1 1/4	2	7.93
F32HIP	28.8	26.2	12.8	14.0	21.0	1.6	24	3 3/4	1 1/4	2	9.02

RECTOPOWER SUPPLIES

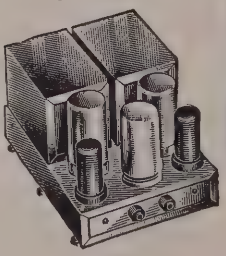

6RS10

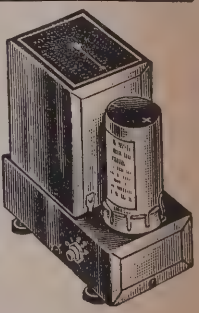

6RS25

All models designed to operate from 110-120 volts, 60 cps and are equipped with accurate reading DC voltmeters and DC ammeters, self-reclosing overload circuit breakers in the DC circuit, fuse protection in the AC circuit and an "on-off" switch. A continuously adjustable transformer-rotor system is included in all models to provide precise adjustment of the output voltage to any value from 0 to rated output. All models filtered to a RMS ripple of 1 volt or less, and are equipped with large capacity electrolytics to provide power storage for the operation of vibrator-powered equipment. Dual range units are equipped with a new, simplified, automatic voltage regulating system which maintains the output voltage relatively constant, as the load changes from no load to full rated load. All models readily portable for use on bench. 6RS10, 12RS5 and 12RS6D provided with two keyhole slots for wall mounting. All others provided with 4 rubber pads.

Mallory No.	DC Output DC Volts Rating	Range	DC Amps Cont.	Interm.	Approx. Output Reg.	Approx. AC In. Watts	Dimensions H x W x D	Shpg. Wt. Lbs.	Net Each
6RS25-1	6	0-8	25	40	15%	325	11x10 1/2x8 3/4	33 1/2	$89.50
12RS6D	6 or 12	0-8 or 0-16	10 or 6	20 or 14	95% or 65%	150	6 3/4x10 3/8x5 1/2	12 1/2	39.95
12RS14D	6 or 12	0-8 or 0-16	25 or 14	40 or 20	15% or 6%	325	11x10 1/2x8 3/4	35	99.50
28RS15D	28 or 14	0-32 or 0-16	15 or 30	25 or 50	5% or 8%	800	11x10 1/2x15 3/8	60	189.50

MALLORY VIBRAPACKS


VP 555

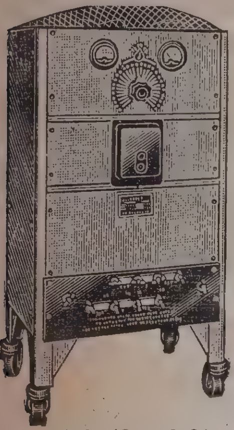

VP 551

Equipped with built-in noise suppressor equipment. Type VP-555 also includes an efficient low-frequency hum filter. Type VP-557 incorporates the first input filter condenser only. Other vibrapacks do not include high-voltage hum filter. High voltage filter requirements are similar to equivalent AC power packs.

Mallory No. VP-	Nominal Output Voltage	Max. O.P. Ma.	Net Each
540*	250	60	$19.80
551	125-150-175-200	100	14.52
552	225-250-275-300	100	17.34
553	125-150-175-200	100	16.17
554H	225-250-275-300	100	18.99
555H	300	200	34.32
557	400	150	34.32
G556	225-250-275-300	100	18.99

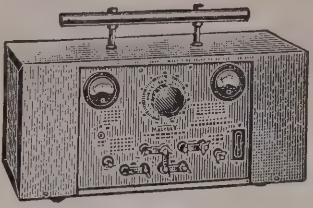
Nominal operating voltage, 6.3 except Model VPG556, 12.6.
*Includes complete audio filter.

Mallory VA Rectopower Supplies

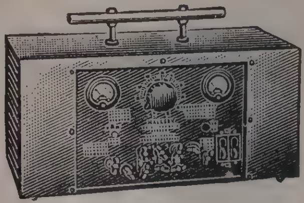


VA-1500
VA-3000
VA-4500
VA-6000

● ADJUSTABLE AND FILTERED DC SUPPLIES ● ALL MODELS EQUIPPED WITH D'ARSONVAL DC VOLTMETERS AND DC AMMETERS ● BROAD OUTPUT VOLTAGE RANGE ● AVAILABLE IN TWELVE DIFFERENT MODELS



VA-800



VA-400

APPLICATION—These supplies provide an extremely versatile and flexible DC power system for labs and production lines, for use in designing, building, testing and repairing of all types of 6, 12 and 24-volt electrical and electronic equipment requiring up to 800 amperes continuously. Any of these six models may also be used for battery charging and for powering all types of electrolytic processes, including: plating, anodizing, electropolishing, electrocleaning, electrorefinishing, etc. The broad output voltage adjustment range with either infinite or close voltage control in small steps, permits accurate simulation of actual operating conditions of a wide range of equipment. Good DC output voltage regulation has been designed into all models to provide an essentially stable DC output voltage for any setting over a range of fluctuating DC current requirments.

Mallory Rectopower Supplies, now available in 12 different models, form one of the most complete lines of laboratory and general purpose rectifier power supplies available today.

DESCRIPTION—All models are equipped with accurate reading multi-range D'Asonval DC voltmeters and DC ammeters with a meter range changing switch to provide excellent meter readability on all ranges. Four simultaneously adjustable, but independent, filtered and regulated 6-volt nominal DC output circuits terminate in ten output studs located on the front panel. By rearranging jumpers, the output system may be seriesed for nominal 24-volt output, series-paralleled for nominal 12-volt output or paralleled for nominal 6-volt output.

Time-tried and proved Mallory Magnesium Copper Sulfide Rectifier Stacks are used in all models in conjuntion with an isolating-type transformer, thermal or magnetic overload circuit breaker, ON and OFF switch in the AC line, and a quiet-running fan system for the cooling of all components. The two single-phase models, **VA400** and **VA800**, are hand carry portable models for operation on 115-volt, 60-cycle, single-phase power lines, and are equipped with infinitely variable voltage control from zero to full-rated voltage. **Model VA800** may be panel-switched for operation on either 115 or 208-230 volt, 60-cycle, single or three-phase power lines. A novel automatic regulating system (no relays used) has been designed into these models to hold DC voltages within 10% to 15% from no load to full load. A six-foot, heavy duty AC cord and plug assembly is provided as standard on all these models. Single-phase, full-wave rectification (120 cycle) with low resistance filter chokes and large electrolytic capacitors are employed to provide a DC output ripple of less than 2% at full-rated load and to provide power storage for the operation of vibrator-powered equipment.

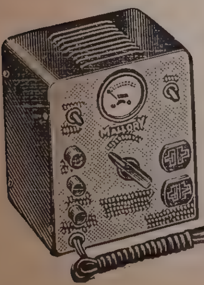
The four three-phase models VA1500, VA3000, VA4500 and VA6000 are designed for use on three-phase, 60-cycle power lines of either 208, 230 460 volts. A single 28-position DC output voltage control switch is provided to vary the DC output voltage over at least a two to one range. Six-phase, full-wave (720-cycle) rectification is used in all three-phase models providing an output ripple of less than 2% without the requirement for chokes or electrolytic capacitors.

MOUNTING—**VA400** and **VA800** are hand carry portable models for use on the floor, shelf, bench or wall bracket. The four three-phase models, VA1500, VA3000, VA4500 and VA6000 are equipped with four rubber-tired casters permitting easy rolling about.

INDUSTRIAL RECTOPOWER SUPPLIES

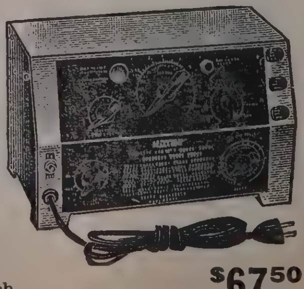
SPECIFICATIONS	MODEL VA400	MODEL VA800	MODEL VA1500	MODEL VA3000	MODEL VA4500	MODEL VA6000
AC INPUT						
VOLTS ± 10%	115	208-230 or 115	208-230 or 460	208-230 or 460	208-230 or 460	208-230 or 460
PHASE	1	1	1	3	3	3
CYCLES	60	60	60	60	60	60
KVA	1.2	2.4	3.0	6.0	9.0	12.0
DC OUTPUT RATING						
MAX. AMPERES AT NOMINAL VOLTS OF DIFFERENT CIRCUIT COMBINATIONS.	AMPS.	AMPS.	AMPS.	AMPS.	AMPS.	AMPS.
6 volts (all paralleled)	50	100	200	400	600	800
12 (series-paralleled)	25	50	100	200	300	400
24 (all seriesed)	12½	25	50	100	150	200
DC OUTPUT ADJUSTMENT						
VOLTAGE ADJUSTMENT RANGE AT MAX. RATED AMPERE OUTPUT	VOLTS	VOLTS	VOLTS	VOLTS	VOLTS	VOLTS
6 volt nominal	0-8	0- 8	4- 8	4- 8	4- 8	4- 8
12 volt nominal	0-16	0-16	8-16	8-16	8-16	8-16
24 volt nominal	0-32	0-32	16-32	16-32	16-32	16-32
NUMBER OF VOLTAGE CONTROLS	1	1	1	1	1	1
NUMBER OF VOLTAGE CONTROL POSITIONS	Infinite	Infinite	28	28	28	28
DC OUTPUT RIPPLE						
AT RATED OUTPUT LESS THAN	2%	2%	2%	2%	2%	2%
DC OUTPUT REGULATION						
FROM 0 TO RATED AMPS. AT MAX. DC VOLTS AND CONSTANT AC VOLTS	15%	10%	25%	25%	25%	25%
OVERALL DIMENSIONS IN INCHES						
WIDTH	22	25½	25½	25½	25½	25½
DEPTH	9	12½	19	19	19	19
HEIGHT	14	15½	55	55	55	55
WEIGHT IN POUNDS						
NET	90	150	300	370	415	480
SHIPPING	100	175	415	485	530	600
NET EACH	**$345**	**$545**	**$740**	**$900**	**$995**	**$1100**

MALLORY TEST INSTRUMENTS



LVA-2 Line Voltage Adjuster—Also useful as an isolation transformer. Provides: infinitely variable AC line adjustment from 90 to 130 volts at 1200 watts; an electrostatically shielded, isolated and infinitely variable low voltage AC from 0 to 40 volts at 4 amps; and an electrostatically shielded and isolated infinitely variable 90-130 volt AC output at 350 watts. Binding posts provided on line voltage adjuster and isolation transformer for low voltage output. Line isolation and adjustment voltages fed to 2 standard AC outlets. 2″ 130 volt AC meter. Complete with 6′ line cord and instructions.
Mallory Model LVA-2—Net Ea. **$41.95**

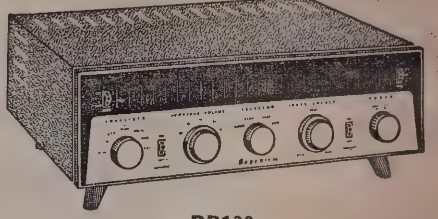
CRT-1 Capacitor-Resistor Checker—A practical radio parts analyzer. Provides checking of extended resistor and capacitor ranges in addition to power factor and leakage measurements. Ohms from 1/10 ohm to 50 megs. Capacitances from 10 μμfd to 5000 μfd; power factors from 0 to 50%; paper, mica or ceramic leakages from .2 to 18 uamps; electrolytic leakages from 1/10 to 9ma.; insulation ohms to more than 2000 megs. AC operated. Complete with tubes.
Mallory Model CRT-1—Net Each.................. **$67.50**



Bogen High-Fidelity Equipment

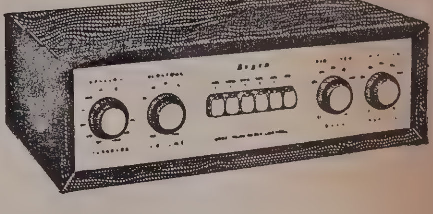
DB130 AMPLIFIER

A new amplifier with many exclusive features: 22 db overall negative feedback; variable damping factor control with visual indication of "ultimate damping", drift-free, direct-coupled preamplifier; tape monitoring during recording; 3-position, separate sharp cut-off high and low frequency filter controls. **Response:** 15-40,000 cps ± ½ db. **Gain:** Phono, 110 db; Tuner, Tape, Aux., 80 db. **Output:** 30 watts. **Distortion:** .5% at 30 watts. **Hum and Noise:** −85 db fundamental. **Inputs:** High and Low Magnetic Phono; Tuner; Tape, Tape Monitor; Hi-Fi Crystal; Aux. **Controls:** Power On-Off; Volume; Bass (+15 to −15 db); Treble (+15 to −15 db); 5-position Loudness Contour Selector; Input Selector with indicator (Phono, Radio, Tape, Aux.); 7-position Equalization Switch; Speaker Selector (A, B, AB). **Tubes:** 7. Shipping Weight: 21 lbs.
Bogen No. DB130 Amplifier—Chassis only. 15″ x 10″ x 4⅜″. NET..... $\$115^{00}$
BCB (Blonde) or **BCM** (Mahogany) **Cabinets**—(Specify Color). NET......**\$7.50**


DB130

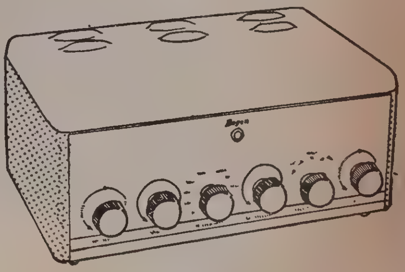
PR100 AUDIO CONTROL-PREAMPLIFIER

A complete Audio Control Unit and Preamplifier designed to be the heart of a hi-fi system. Two equalization controls with six positions each for high roll-off and low turnover. Two filter controls with five positions each for bass and treble. Continuously variable bass and treble tone controls. Volume control and loudness contour control with five positions. Six push-button input selectors. **Frequency Response:** 5-150,000 cps, ± ½ db. **Distortion:** Practically unmeasurable. Cascaded cascode feedback equalizer stage for lowest noise. DC used on all filaments to prevent hum. Colored dots indicate control positions for average listening conditions. USE WITH BOGEN D030A, D0110. **Chassis Size:** 14½″ x 9″ x 4¼″. Shpg. Wt.: 13¼ lbs. $\$109^{00}$
Bogen No. PR100 Audio Control-Preamplifier—Chassis only. NET....
In Mahogany (**PR100WM**) or Blonde (**PR100WB**) Cabinet—15¾″ x 10¼″ x 5½″. Shipping Weight, 18 lbs. Complete, NET..............................**\$129.00**


PR100WM

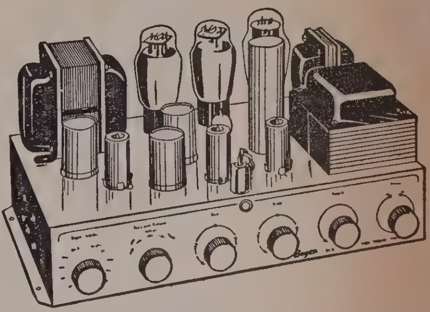
DB15G-I AMPLIFIER

A top-rated hi-fi amplifier, with a built-in preamplifier. Incorporates two-section equalizer, allowing 20 combinations of low frequency compensation and high frequency roll-off, plus bass and treble controls. Loudness contour selector provides a solution to loudness compensation problems. **Power Output:** 15 watts at 0.5%, 10 watts at 0.2%. **Frequency Response:** 20-20,000 cps, ± ½ db. **Hum:** −70 db. **Output Impedance:** 8 to 16 ohms. **Loudness Contour Positions:** 5. **Input Selector Positions:** 5. **Size:** No. DB15, 12¼″ x 8¾″ x 3¾″. No. DB15G-1, 13½″ x 8¾″ x 6¼″. Shipping Weight: No. DB15, 22 lbs. No. DB15G-1, 25 lbs.
Bogen No. DB15G-1 Amplifier—In Metalustre enclosure. NET........ $\$100^{70}$
Bogen No. DB15 Amplifier—Chassis only. NET..............................**\$89.95**
Bogen No. DB15WB—Mounted in Blonde Cabinet. NET..............**\$108.55**
Bogen No. DB15WM—Mounted in Mahogany Cabinet. NET...........**\$108.55**


DB15G-1

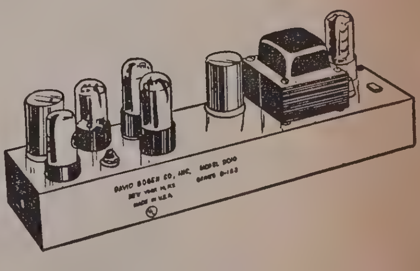
DB20 AND DB20DF AMPLIFIERS

Model DB20 offers a combination of important features: A 5-position loudness contour selector for optimum compensation; 7-position record equalizer; Bass and Treble Controls; DC operated preamplifier filaments to minimize hum; 5 feedback loops, including partial cathode-loaded output for extremely low distortion; a rumble filter is incorporated. Model DB20DF provides ultimate in bass response by permitting, upon installation, precise coupling of the amplifier to the speaker system. Damping factor variable from +2 through infinity to −1. "Tunes out" resonant peaks and reduces worst non-linear characteristics of the speaker system.
Power Output: 20 watts at 0.3%; peak, 30 watts. **Frequency Response:** 20-20,000 cps, ±0.7 db. **Hum and Noise:** 75 db below 20 watts. **5 Inputs:** Magnetic phono, crystal phono, radio tuner, TV, tape recorder. **Damping Factor:** 13. **Controls:** Volume; Bass (+17 to −18 db at 40 cps); Treble (+15 to −21 db at 15,000 cps); Five-position Contour Selector; Function Selector (Radio, TV, Tape, LP, AES, NAB, Ortho-, RIAA, AM78, EU78, POP); Power On-Off. Size: (Either model) 15″ x 9¼″ x 8″. Shipping Weight: 25 lbs.
Bogen No. DB20 Amplifier—Chassis only. NET.......................... $\$99^{00}$
Bogen No. DB20G Amplifier—In cage. NET...........................**\$106.50**
Bogen No. DB20DF Amplifier—Chassis only. NET..................**\$108.00**
Bogen No. DB20DFG Amplifier—In cage. NET........................**\$115.50**


DB20 and DB20F

DB110 AMPLIFIER

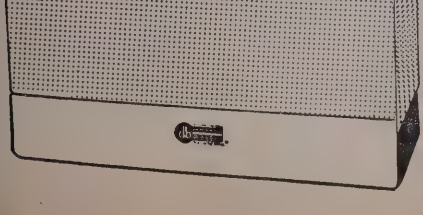
Provides 12 watts output with a peak of 19 watts. 0.65% harmonic distortion at 12 watts; less than 0.1% at lower levels. **Frequency Response:** 15-90,000 cps, ± ½ db. **Controls:** Volume; Bass (+17 to −17 db at 40 cps); Treble (+12 to −16 db at 15 kc); Input Equalizer Selector (4 input positions, 3 record equalization positions—RIAA, 78, POP). Built-in preamplifier with compensated inputs for magnetic phono plus inputs for mike, tuner, TV, Tape, etc. Also has provision for tape recording. **Chassis Size:** 11″ x 7¼″ x 5¼″. **Cage Size:** 11⅛″ x 7¾″ x 5⅝″. $\$59^{95}$
Bogen No. DB110 Amplifier—Chassis only. NET........................
Bogen No. DB110G Amplifier—In cage. NET..............................**\$64.50**


D0110

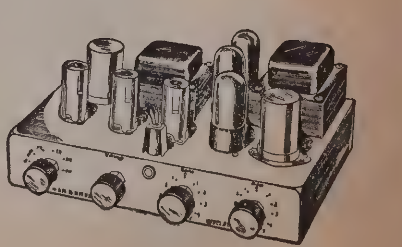
D0110 POWER AMPLIFIER

The narrow chassis of this amplifier permits greatly flexible installation. Designed to be driven by the output of a quality AM or FM tuner or a separate preamplifier. **Power Output:** 12 watts at 0.15%; peak, 19 watts. **Frequency Response:** 8-60,000 cps, ± ½ db. **Gain:** 69 db. **Noise:** 80 db below rated output. **Output Impedance:** 4, 8 and 16 ohms. **Inputs:** 500,000 ohms. **Tubes:** 5. **Power Consumption:** 70 watts at 117 volts, 60 cps AC. **Size:** 16″ x 4″ x 5″. **Shipping Weight:** 13 lbs. USE WTIH BOGEN R765, R710 Tuners and PR100 Preamplifier.
Bogen No. D0110 Power Amplifier—NET.......................... $\$44^{95}$

D030A POWER AMPLIFIER


D030A

A superb companion to the Bogen R765 Tuner and PR100 Preamp. It has been engineered with painstaking attention to every criterion of high fidelity music reproduction. Variable damping factor control permits precise matching of amplifier to speaker system. KT66 Tubes in partial cathode loaded output. **Power Output:** 30 watts at 0.7%, 10 watts at 0.15%. **Frequency Response:** 10-25,000 cps, ± .2 db. **Hum:** −85 to −95 db. **Output Impedances:** 8 and 16 ohms. **Size:** 15″ x 7¾″ x 5¾″, compact for installations where space is limited. Shipping Weight: 28 lbs. USE WITH BOGEN R765, R710 Tuners.
Bogen No. D030A Power Amplifier—In gold cage. NET....... $\$99^{00}$

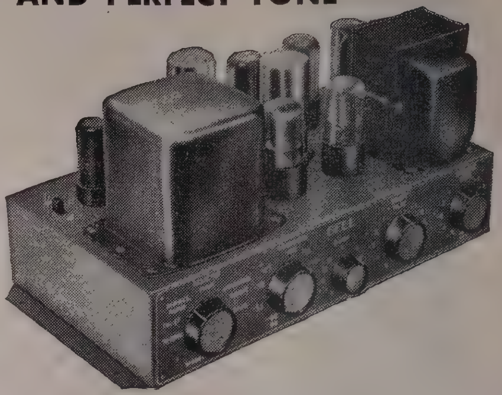

DB110

BELL SOUND SYSTEMS

High Fidelity Equipment

FOR CLARITY, TRUENESS AND PERFECT TONE

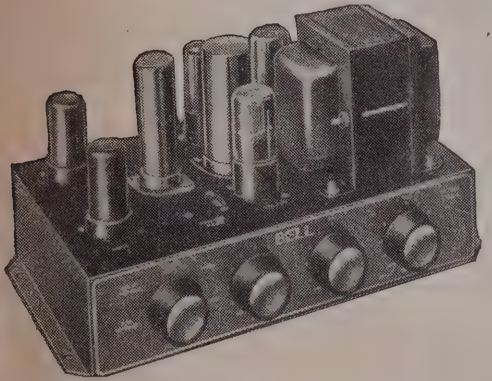
HI-FI AMPLIFIER MODEL 2199-B



Includes Bass and Treble boost and attenuation, together with continuously variable calibrated loudness or contour control for low level listening. **Power Output:** 12 watts at 0.5% distortion. Peak, 20 watts. **Frequency Response:** 20-20,000 cps, ±0.5 db, with controls at flat. **Hum Level:** 70 db below rated output. **Inputs (6):** 2 magnetic inputs; crystal pickup; special input for FM-type or ceramic pickups; radio input; tape input, for tape or disc recorders or TV. **Controls: (Control Panel)** Equalization and Selector Switch (COL-LP; RCA-AES-NARTB; FFRR; EUROPEAN; RADIO; TAPE.) Continuously variable compensated Loudness Control (0 to −40 db range). Gain Control. Bass Control (−14 db to +13 db at 100 cps). Treble Control with AC Switch (−13 db to +12 db at 10Kc.) **Chassis Deck;** Motor rumble switch. Socket for Bell 2201 Pilot Light Assembly. **Output Impedance:** 4, 8, 16 ohms with auxiliary high impedance jack for tape or disc recorders. **Power Con.:** 75 watts, 117 volts, 50-60 cps. **Tubes (6):** 1-6SC7, 2-6SL7, 2-6V6GT, 1-5Y3GT. **Size:** 8⅜" deep, 13" wide, 6¼" high. **Net Weight:** 13½ lbs. Removable etched dial plate and five 1¾" extension shafts are provided for console mounting. Three 117 volt AC outlets in chassis.

Bell Model 2199-B—Net Each.................................. **$79.95**

HIGH FIDELITY RADIO-PHONO AMPLIFIER MODEL 2122-C



New and improved version of the famous 2122 amplifier. Incorporates all the desirable features most wanted by high fidelity enthusiasts. Has inputs for a radio tuner and any crystal pickup plus two special inputs for the new type magnetic pickups. Built-in preamplifiers and individual equalization of each of the magnetic inputs assures proper match and response from various types of magnetic pickups. Bass and Treble boost, plus attenuation, makes it possible for the operator to adjust the tone to the most exacting tastes. Adjustable output impedance permits proper matching to most types of speakers. Two 117 volt outlets are provided on the back of chassis for a phono motor and radio tuner.

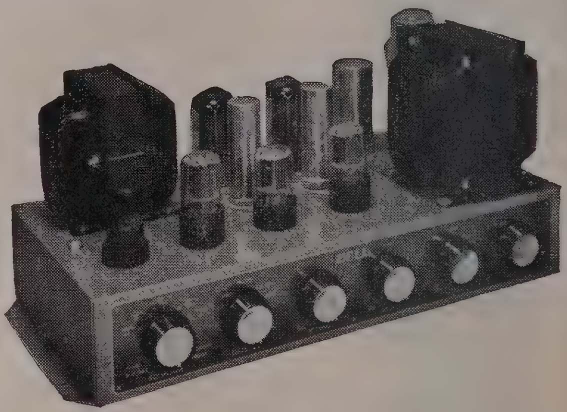
Output: 10 watts at less than 2%. Peak power, 15 watts. **Frequency Response:** ± ¾ db. 20-20,000 cycles with controls set for flat response. **Gain:** Radio (Hi-Z) 76 db; Crystal phono (Hi-Z) 74 db; Magnetic No. 1 95 db; Magnetic No. 2 110 db. **Hum Level:** −65 db below rated output. **Inputs:** 1-Radio; 1 Crystal Phono; 1-Magnetic No. 1; 1 Magnetic No. 2. **Input Impedance:** Radio 100K; Crystal Phono .6 Meg.; Magnetic No. 1 27K; Magnetic No. 2 47K. **Controls:** (4) 1-Overall volume control; 1-Bass control −14 db to +13 db; at 100 cycles; 1-Treble control with AC power switch −13 db to +12 db; at 10K cycles; Selector switch (with equalization) POP-LO-NOISE, COL LP-AES-RCA, FFRR-EARLY 78, TUNER, AUX. **Output Impedance:** 4 ohms; 8 ohms; 16 ohms. **Power Consumption:** 75 watts; 117 volts; 50-60 cycles. **Tubes:** 1-5Y3GT, 2-6V6GT, 1-6SL7, 2-6SC7. **Dimensions:** 7½" deep, 6" high, 11½" long. **Net Weight,** 8½ lbs.

Bell Model 2122-C—Complete with template, removable etched dial plate and four 1¾" extension shafts for console mounting. Net Each.............................. **$53.95**

Model 2201—Pilot light kit complete with 5-ft. cord, plug, socket, lamp and instructions. Designed for use with Models 2122-C, 2199-B and 2200-C. Net Each........................ **$1.95**

HIGH-FIDELITY RADIO-PHONO AMPLIFIER MODEL 2200-C

Latest to come from Bell's engineering laboratories. Incorporates in its design many new and desirable features for lovers of high fidelity reproduction. The Model 2200-C has a removable etched dial plate and is supplied complete with six 1¾" extension shafts for console or custom installation. Pilot light socket is provided if desired. Accessory model 2201 listed above may be used. Three 117 volt AC outlets are provided on back of chassis allowing master switch on amplifier to control entire custom installation.



SPECIFICATIONS

Power Output: 20 watts at less than .3% distortion. Peak power 35 watts. **Frequency Response:** 20 to 20,000 cycles, ±.2 db, with controls set for flat response. **Hum Level:** 80 db below rated output. **Seven Inputs:** Radio, crystal pickup, two magnetic pickups, TV, tape recorder and microphone. **Controls:** Equalizer Switch (5 positions)—78 RPM, COL-LP, RCA-AES, FFRR, EUR; Selector Switch—Phono w/rumble filter, Phono w/o rumble filter, Radio, TV, Tape; Continuously Variable Loudness Control having range 0 to −40 db; Gain Control; Bass Control, −17 db to +15 db at 40 cycles; Treble Control w/AC Switch, −28 db to +18 db at 15K cycles; Radio Level set control (rear panel). **Output Impedance:** 4, 8, 16 ohms, hi-Z tape recording output. **Power Consumption:** 150 watts, 117 volts, 50-60 cycles. **Tubes (7):** 1-6SC7; 1-6SN7GT; 2-6SL7GT; 2-5881; 1-5U4G. **Size:** 8¾" deep, 16" wide, 7⅝" high. **Net Weight:** 23 lbs. **$99.95**

Bell Model 2200-C—Net Each..............................

THREE-SPEED PORTABLE TRANSCRIPTION UNIT MODEL 2198

A lightweight (15 lbs.) transcription unit incorporating all desirable features. Heavy duty 8" PM speaker is mounted in lid which is removable. Equipped with 15-ft. speaker cord and plug. Heavy duty three-speed motor capable of playing all sizes from 6" to 16". Sloping control panel incorporates two controls, volume and tone, permits adjustment most pleasing to ear and size of audience.

The complete unit is housed in a reinforced plywood case covered with leatherette and is sturdily constructed throughout. Recommended for schools, advertising agencies, broadcast stations, music classes, rumpus rooms and sound effects.

SPECIFICATIONS

Output: 2.5 watts. **Controls:** Volume w/AC switch; combination bass and treble. **Speeds:** 33⅓, 45 and 78 rpm. **Pick-up:** Type 400 with twin CAC cartridge (actually two cartridges that have separate characteristics for microgroove and standard). **Speaker:** 8" PM Alnico V. **Speaker Cable:** 15-ft. POSJ cord with metal phone plug. **Power:** 30 watts, 117 volts, 60 cycles. **Tubes:** 1-12AV6; 1-35W4; 1-50B5. **Dimensions:** 8½" deep, 15" high, 14" wide. **Net Weight:** 15 lbs.

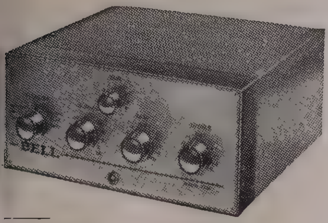
Bell Model 2198—Net Each (F.E.T. not incl.)...................... **$73.52**

BELL SOUND SYSTEMS

High Fidelity Equipment

MINIATURE HIGH FIDELITY EQUIPMENT

NEW MODEL 2256 HORIZONTAL HIGH FIDELITY AMPLIFIER



- 12 WATT OUTPUT AT .5%
- 5 POSITIONS OF RECORD EQUALIZATION
- SIZE ONLY 8¾" X 9½" X 4" HIGH

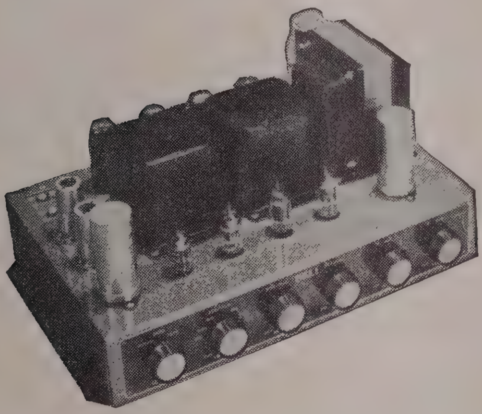
New 12 watt high fidelity amplifier featuring horizontal orientation of components rather than conventional upright (vertical) mounting. 12 watt rating is for one-half of one per cent distortion. Peak power is 20 watts.

SPECIFICATIONS

Frequency Response: 20 to 20,000 cycles, plus or minus ½ db with control set for flat response. **Hum Level:** 70 db below rated output. **Inputs (6):** Radio, Crystal Pickup, 2 Magnetic Pickup, Special Input for frequency modulated and ceramic pickups, Tape or Disc Recorder or TV. **Controls (5):** Equalization and Selector Switch (7 positions—78 RPM, COL LP, RIAA—NARTB, FFRR, EUROPEAN, Radio, Tape). Continuously Variable Loudness Control (0 to −40 db), Gain Control, Bass Control (−18 to plus 5 db variation at 40 cycles), Treble Control (−18 to plus 14 db variation at 15 kc), with AC switch, and (on Rear Panel), Radio Level Set Control. **Outputs (4):** Rear Panel—4, 8, 16 ohms, high impedance jack for tape or disc recorder. **Power Consumption:** 75 watts, 117 volts, 50-60 cycles. **Tubes (6):** 1-12AX7, 2-12AT7, 2-6V6GT, 1-5Y3GT. **Size and Weight:** 8¾" deep, 9½" wide, 4" high. Weight, 9 lbs.
Model 2256 Horizontal High Fidelity Amplifier—Net. $\$89^{95}$

BINAURAL AMPLIFIER

MODEL 3-D HIGH FIDELITY AMPLIFIER

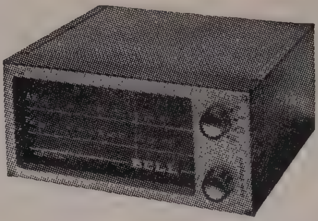


A complete binaural amplifier with self-contained power supply, preamplifiers and necessary controls. Has three inputs—dual flat input for radio and tape reproduction and two dual inputs for high or low level magnetic pick-ups and are equalized specifically for all tape recorders. Can be used for monaural operation or conventional reproduction of phonograph records, radio or tape through one or both of its channels. Three-position input switch and 6-position function switch enable selection of binaural, monaural or reverse binaural either with or without loudness control. Balance control to restore balance by correcting differences in speakers, pick-ups and listening areas.

SPECIFICATIONS

Power Output: 20 watts (10 for each channel) at less than ½% total distortion. Peak power 35 watts. **Frequency Response:** 20 to 20,000 cycles ± ½ db (tone controls set for flat response). **Hum Level:** 70 db or more below rated output. **Dual Inputs:** Tape, Radio, Phono. **Dual Output Impedances:** 4, 8, 16 ohms plus dual HI-Z Tape Recording Output. **Power Consumption:** 135 watts total, 117 volts, 50-60 cycles AC. **Tubes:** 2-12AY7, 2-12AT7, 2-12AX7, 4-6V6GT and 1-5U4G. **Controls:** Selector (3-position)—Phono, Radio, Tape. Function Switch (6-position)—Binaural, Monaural, Binaural Reverse with loudness; Binaural, Monaural, Binaural Reverse without loudness. Balance—Controls gain balance between the two channels. Gain—Controls gain of both channels simultaneously. Bass—From plus 17 to minus 18 db at 40 cycles (both channels). Treble—From plus 16 to minus 17 db at 15 kc; with AC switch (both channels). **Size:** 11 in. deep by 16 in. wide by 8 in. high. **Weight:** Net 26 lbs.
Model 3-D Binauaral High Fidelity Amplifier—Net. $\$149^{95}$

NEW MODEL 2255 MINIATURE HIGH FIDELITY TUNER



- TWO SEPARATE AUDIO OUTPUTS
- 4 MICROVOLT FM SENSITIVITY
- SIZE ONLY 8¾" X 9½" X 4" HIGH

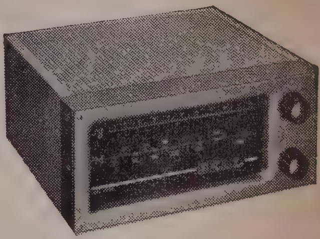
New compact AM-FM high fidelity tuner featuring two separate Audio Outputs for feeding tape recorders and high fidelity amplifiers; 33 db or more image rejection and frequency ranges of (FM) 88 to 108 mc. and (AM) 530 to 1650 kc.

SPECIFICATIONS

Frequency Response: (FM) plus or minus ½ db from 20 to 20,000 cycles; (AM) plus or minus 3 db from 20 to 5000 cycles. **Hum Level:** 65 db below 100% modulation. **Inputs (2):** Selector Switch (4 positions—OFF, AM, FM with AFC, FM without AFC), Tuning Control with AFC defeat. **Outputs (2):** Rear Panel—Two Separate Audio Outputs for feeding tape recorders and High Fidelity amplifiers (cathode follower). **Sensitivity:** FM—4 microvolts for 20 db quieting; AM—Field strength required: 80 microvolts/meter—equivalent to 26 microvolt sensitivity. **Selectivity:** FM—200 kc. bandwidth 6 db down; AM—8 kc. bandwidth 6 db down. **FM Drift:** Plus or minus 20 kc. without AFC; plus or minus 3 kc. with AFC. **Power Consumption:** 30 watts, 117 volts, 50 to 60 cycles. **Tubes (8):** 2-12AT7, 1-6BE6, 1-6BA6, 2-6AU6, 1-12AU7, 1-6AL5, plus selenium rectifier. **Size and Weight:** 8¾" deep, 9½" wide, 4" high. Wt., 9 lbs.
Model 2255 High Fidelity Tuner—Net Each......... $\$99^{95}$

NEW MODEL 2254 FM TUNER

- GROUNDED GRID INPUT
- TWO LIMITING STAGES
- AUTOMATIC FREQUENCY CONTROL
- TRUE ARMSTRONG FM



Here is a compact and beautiful matching companion to the Bell Model 2256 Amplifier . . . and a worthy match for any amplifier. Fully enclosed and richly finished in satin gold and brown. Entirely suitable for either open shelf or table top use. The large slide-rule type dial is edge-lighted. Its low-distortion cathode follower output will feed long lines to amplifiers without distortion. An output level control on the rear panel affords exact adjustments to suit both the environment and the listener. Another Bell must for the audiophile.

GENERAL SPECIFICATIONS

Frequency Response: 20-20,000 cps, ±1 db. **Hum Level:** 65 db below 100% modulation. **Sensitivity:** 4 μv for 20 db of quieting. **Selectivity:** 200 kc bandwidth, 6 db down. **Frequency Range:** 88-108 mc. **FM Drift:** ±20 kc without AFC; ±3 kc with AFC. **Voltage Output:** 3 volts, with less than 1% distortion. **Antenna Input:** 300 ohms. **Two Outputs:** On rear panel—two separate audio outputs for feeding tape recorder and high fidelity amplifier (cathode follower). **Image Rejection:** 33 db or more. **Controls:** Three Position Selector Switch (Off, FM with AFC, FM without AFC); Tuning with AFC Defeat; Output Level (on rear panel). **Tube Complement:** 2-12AT7, 3-6AU6, 1-12AU7, 1-6AL5, selenium rectifier. **Power Consumption:** 28 watts at 117 volts, 50-60 cps. **Dimensions:** 8¾" deep x 9½" wide x 4" high. **Weight:** 8½ lbs.
Model 2254 FM Tuner—
Net Each.................................... $\$79^{95}$

COXIAL LOUDSPEAKER

A 12" coaxial speaker in which top-flight electronic engineering, acoustical design and high quality materials are combined to satisfy the audiophile's ear . . . and pocketbook. An efficient low-frequency driver cone is teamed with a high frequency radiator, coaxially mounted, to reproduce both voice and music with unusual faithfulness. Belt buffer mounting rim. Heavy Alnico V magnet. **Rated Wattage:** 30 watts. **Voice Coil Dia.:** 2". **Frequency Response:** 38-13,600 cps, ±6 db. **Voice Coil Impedance:** 8 ohms. **Crossover Frequency:** 2400 cps. **Size:** 12⅛" dia. x 6½" deep. **Baffle Opening:** 11" dia. **Shipping Weight:** 9 lbs.
Model HF-2240 Loudspeaker—Net Each............ $\$29^{70}$

McIntosh High Fidelity Equipment

NEW MODEL MC-60 60-WATT HIGH FIDELITY AMPLIFIER

For the audiophile or the laboratory technician who is content with nothing less than the best. Designed and built for the most critical and discriminating, McIntosh amplifiers provide a realism, naturalness and ease of listening unattainable by units utilizing conventional circuits. The patented McIntosh circuit, with unity coupling, **provides 99.60% perfect amplification.** This model will produce 60 watts of power at less than 0.5% Harmonic or Intermodulation Distortion—from 20-20,000 cps. Thus this high fidelity amplifier insures the complete absence of discordant tones . . . provides the purest and most nearly perfect amplification. Since nothing is added to or taken from the input signal, clean, unparalleled reproduction of sound results, bringing you exquisite realism at low as well as high volume levels. Clear, lucid highs—with no peaking. Natural, full bass—with no booming. And an unbelievably rich, thrilling middle range.

SPECIFICATIONS

Frequency Response: 20-30,000 cps, ±.1 db at 60 watts output; 16-60,000 cps, ± .5 db at 60 watts output; 10-100,000 cps, ±1.0 db at 30 watts output. **Noise and Hum Level:** 90 db or more below rated output. **Harmonic Distortion:** Guaranteed less than 0.5% at 60 watts output or less, 20-20,000 cps. **Intermodulation Distortion:** Less than 0.5% if instantaneous peak power is below 120 watts. **Impulse Distortion:** Negligible. **Damping Factor:** 15 or better for 4, 8 and 16 ohms output, 20 for 600 ohms. **Phase Shift:** ±8°, 20-20,000 cps. **Input Impedance:** 0.5 meg for 0.5 volt input and 0.13 meg for 2.5 volt input. 20-40,000 cps. **Output Impedance:** 4, 8, 16 and 600 ohms (600 ohm is balanced to ground). **Input Levels:** Input #1, .5 volt for 30 volts, with gain control; Input #2, 2.5 volts (for use with McIntosh Preamplifiers). Designed to power Models C-4, C-8 and other McIntosh preamplifiers. **Tubes:** 2-12AX7, 1-12AU7, 2-6550 and 2-5U4GA. **Power Supply:** 117-125 volts, 50-60 cps. **Power Output:** 60 watts continuous. **Power Consumption:** 280 watts at 60 watts output; 155 watts at zero signal output. **Dimensions:** 14″ x 10″ x 8″ high. **Shipping Weight:** 49 lbs.

McIntosh Model MC-60 60-Watt Amplifier—Net Each.......... **$198.50**

NEW MODEL C4 EQUALIZER PREAMPLIFIER

- **BASS ACCENTUATE AND ATTENUATE**
- **TREBLE ACCENTUATE AND ATTENUATE**
- **11-POSITION BASS AND TREBLE COMPENSATION**
- **MASTER ON-OFF SWITCH AND VOLUME CONTROL**

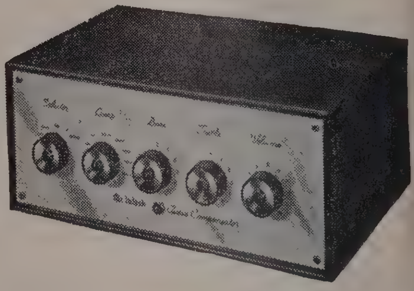
Here, in the McIntosh tradition, is the ideal preamplifier to back up the powerful McIntosh amplifiers. This beautifully housed preamplifier will deliver 4 volts at less than 0.3% distortion, 20-20,000 cps, at any setting! Works wonders with bass and treble control: **Bass Accentuate,** 18 db. **Bass Attenuate,** 20 db (20 cps). **Treble Accentuate,** 17 db. **Treble Attenuate,** 20 db (20,000 cps). **Record Equalization:** NAB, Orthophonic (identical to RIAA, new AES, and new NARTB), EUR. 78, COL. 78, COL. LP, LON. LP, 629 16, 629 11, 800 16, 800 10. **Five Input Channels:** Tape, tuner, microphone and two phonograph. Variable load and magnetic constant amplitude switch on one phonograph channel. **Outputs:** Two main and one tape output, each taken from a cathode follower. Three AC outlets controlled by the Master On-Off Switch. **Hum Level:** −110 db referred to input. **Controls:** Input Channel Selector, Equalization Selector, Bass Compensation, Treble Compensation, Volume/Power On-Off Switch. Signal Light. **Dimensions:** (Mounted in hardwood enclosure, as illustrated), 11⁹⁄₁₆″ x 7¾″ x 4¾″. Chassis only, 10″ x 7½″ x 3½″. Powered by any McIntosh power amplifier or self-powered by addition of Model D-8 Power Supply.

McIntosh Model C-4 Equalizer Preamplifier—Shpg. Wt., 8 lbs. Net Each... **$64.50**

McIntosh Model C-4M (Illustrated)—Model C-4 mounted in a Mahogany Enclosure. Shipping Weight, 12 lbs. Net Each.......................... **$72.50**

McIntosh Model C-4B—Model C-4 mounted in a Blonde Enclosure. Shipping Weight, 12 lbs. Net Each.......................... **$72.50**

McIntosh Model C-4P—Self-Powered Model C-4. Shipping Weight, 11 lbs. (Less enclosure). Net Each.......................... **$75.50**

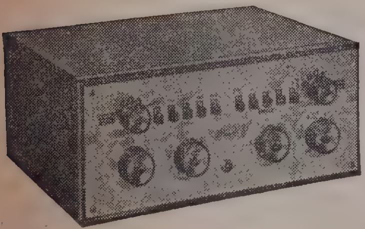


C-4M

McIntosh Model C-4PM—Self-Powered Model C-4, mounted in Mahogany Enclosure. Shipping Weight, 15 lbs. Net Each.................. **$83.50**

McIntosh Model C-4PB—Self-Powered Model C-4, mounted in Blonde Enclosure. Shipping Weight, 15 lbs. Net Each.................. **$83.50**

MODEL C-8 AUDIO COMPENSATOR



Professional quality equalizer preamp. Serves as a control unit for any McIntosh amplifier or may be used as a front end self powered unit for other quality amplifiers. Features 5 turnover and 5 roll-off slide switches. Turnover: 1300, 950, 750, 580, 400, and 280 cps. Roll-off: Flat, 5, 10, 15, 20, 25 db. Any recording curve may be compensated for by the literally hundreds of switch combinations possible. Other features and controls: 5-position aural compensator adjusts frequency response to individual listening tastes, acts as a loudness control; 5-position Rumble suppressor, Variable Bass and Treble controls; On-off Volume; 5-position Input Selector. 5 inputs: 2 with set levels for tape, tuners, etc.; 1 low impedance mike with set level; 1 high level magnetic phono; 1 low level magnetic phono. Auxiliary Output independent of volume, bass, and treble controls, provided to drive Hi-impedance input of tape recorders. Tubes, 3-12AX7. Gold finished panel. Powered by any McIntosh amplifier, or self-powered.

Model C-8—Less cabinet and power supply. 4½″ H. x 11″ L. x 7½″ D. Shipping Weight, 8 lbs. Net Each.... **$88.50**

Model C-8M—With Mahogany cabinet, less power. Net **$96.50**

Model C-8P—Self-powered, less cabinet. Net Each.... **99.50**

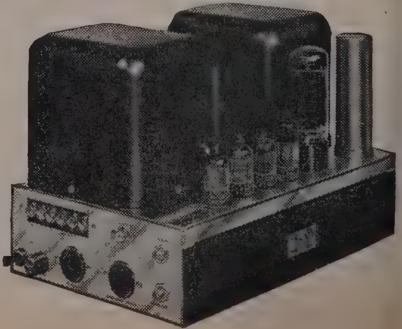
Model C-8PM—Self-powered, with cabinet. Net Ea.. **$107.50**

MODEL MC-30 30-WATT AMPLIFIER

- **LESS THAN 0.33% DISTORTION**
- **600 OHM BALANCED OUTPUT IMPEDANCE**
- **DAMPING FACTOR OF 12 OR BETTER**
- **NOISE AND HUM KEPT TO MINIMUM**

A new basic amplifier with outstanding characteristics. One of the most important of these is the distortion of less than 0.33% at a full 30 watt output, 20-30,000 cycles. **Intermodulation:** Less than 0.5% below 60 watts. **Range:** At 30 watts plus or minus 0.5 db, 10-50,000 cycles; at 15 watts, plus or minus 1 db, 10-100,000 cycles. **Noise and Hum:** 90 db or more below rated output. **Damping Factor:** 12 or better for 4, 8 and 16 ohm outputs. **Two Inputs:** 0.5 volt, 500K with gain control; 2.5 volts, 130K. **Output Impedance:** 4, 8, 16 and (600 ohm balanced). **Tubes:** 5U4GA rectifier, 12AX7 input amplifier, 12AU7 phase inverter; 12BH7 voltage amplifier, 12AX7 driver, 2-1614 outputs. Chrome plated chassis, over all size 13″ x 8″ x 8″. Complete with tubes, connectors, and instructions. Shipping Weight, 33 lbs.

McIntosh Model MC-30—30 Watt Amplifier—Net Each. **$143.50**

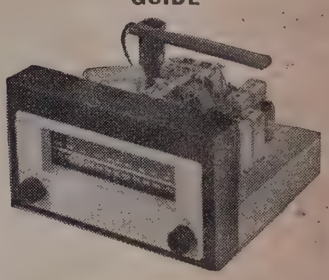


harman kardon *Hi-Fi Equipment*

"COUNTERPOINT"

"FESTIVAL"

"GUIDE"



NEW MODEL A-400 "COUNTERPOINT" FM TUNER

Beautifully styled in "decorator" combination of brushed copper and black. When in its cage (optional) it can be placed on a shelf or table. Cathode follower driven precision tuning meter; Armstrong system with ten tuned circuits including two IF stages and two double-tuned limiters; tuned pentode RF stage—low-noise matched; three microvolt sensitivity for 30 db quieting. **Two Controls:** Variable AFC/Power; Counterweighted Tuning. Output level control; two bridged cathode follower outputs. **Frequency Range:** 88-108 mc. **Image Rejection:** 50 db. **IF Rejection:** 60 db. **Drift:** With AFC, ±2 kc; without AFC, ±20 kc. **Audio Output:** 3 volts for 100% modulation. **AFC Factor:** 10 to 1. **Distortion:** Less than ½% at 100% modulation per IRE standards. **Frequency Response:** ±½ db, 20 cps to 20 kc. **Tubes:** 1-6U8; 1-12AT7; 4-6AU6; 1-6AL5; -12AU7. Shpg. Wt. 10 lbs. **Size:** 4″ high, 11⅛″ wide, 7½″ deep.

Harman-Kardon Model A-400—Net Each............ $\$89^{95}$

Harman-Kardon Model AC-4 Cage—Net Each.........**$8.00**

MODEL D-1100 "FESTIVAL" FM-AM CHASSIS

Combines and matches, on one chassis, separate AM and FM tuner, a complete preamplifier and a full 30-watt Williamson Ultra-Linear power amplifier. Features separate AM and FM front ends with a tuning meter for use on either, superior AFC with defeat switch, exclusive 6-position dynamic loudness contour control, precision flywheel tuning and simplest possible installation. **Response:** ±1 db, 20-40,000 cps at 30 watts, ±0.1 db at 15 watts. **Damping Factor:** 20. **Feedback:** 30 db in 3 separate loops. **Total Hum Level:** Over 90 db below 30 watts with full volume, contour in position 1, tone controls normal. **Treble Range:** 18 db boost and attenuation. **Bass Range:** 18 db boost and attenuation. **Control 1:** Inner knob, volume control. Outer knob is the Dynamic Loudness Contour, with 6 positions providing complete range of loudness compensation. **Control 2:** Bass. **Control 3:** Function Selector. 3 phono equalization positions to compensate for variations in recording characteristics regardless of the type of cartridge used, LP, RIAA and EUR. Also has positions "AM", "FM" and "Auxiliary". **Control 4:** Treble. **Control 5:** Tuning, combines with AFC defeat. FM circuit includes Armstrong system with Foster-Seeley discriminator. **Tubes:** (16) 1-6U8, 2-12AT7, 1-6BE6, 2-6BA6, 2-6AU6, 1-6AL5, 3-12AUT, 2-5881, 1-6X4, 1-5U4GB. **Dimensions:** 7″ high, 11¼″ deep, 13⅝″ wide. Shipping Weight: 35 lbs. Copper plated chassis, brushed copper escutcheon, jet black knobs.

Harman-Kardon Model D1100—Net Each......... $\$199^{95}$

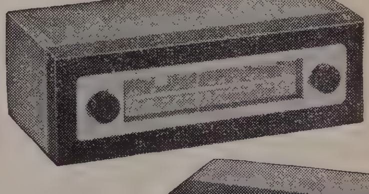
MODEL A-200 "GUIDE" AM-FM TUNER

No-drift AFC, Armstrong circuitry, quality AM performance plus built-in sensitive AM loopstick. Built-in power supply. AFC Defeat combined with Tuning control. **FM Sensitivity:** 5 µv for 30 db quieting. **FM Drift:** ±15 kc max. **Image Rejection:** 30 db minimum. **Audio Output:** 1 volt at hi-Z. **Hum Level:** 65 db below 100% modulation. **Tubes:** 2-12AT7, 1-6BE6, 1-6BA6, 2-6AU6, 1-6AL5; selenium rectifier. **Controls:** Tuning and AFC Defeat; Power On-Off, AM, FM, Phono. **Distortion:** Less than 1% at rated output. **Frequency Response:** FM 20-20,000 cps ±.5 db; AM 20-5000 cps ±3 db. **Dimensions:** 5¼″ high, 9½″ wide, 8″ deep. Edge-lit slide rule dial, brushed copper escutcheon, jet black knobs. Shipping Weight: 10 lbs.

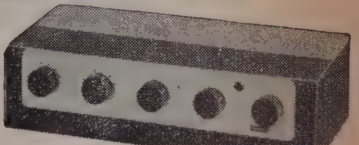
Harman-Kardon Model A-200—Net Each........... $\$69^{50}$

"THE RECITAL"

"THE TREND"



"THE THEME"



"THE MELODY"

NEW MODEL D-200 "RECITAL" SYSTEM

Combines a sensitive AM-FM Tuner with a flexible Preamplifier and a 12-watt Ultra-Linear Power Amplifier. **Tuner** section features Armstrong FM circuit and Superheterodyne AM circuit. **Sensitivity:** FM, 5 µv for 30 db, 3 µv for 20 db quieting. AM, Loop, 80 µv meter; terminal, 20 µv. **Bandwidth:** AM 8 kc, FM 200 kc, 6 db down. 5 kc maximum FM drift. **Image Rejection:** FM or AM 30 db. **Distortion:** Less than 1% harmonic on FM, less than 1% harmonic for up to 80% mod. on AM. **Frequency Response:** ½ db, 20-20,000 cps FM; 3 db, 20-5000 cps AM; ½ db, 10-40,000 cps audio, ½ db, 40-15,000 cps audio at 12 watts. **Hum Level:** RF, 60 db below 100% mod.; Audio, 80 db below 12 watts, Aux. and Tuner, 70 db below 12 watts, Phono, 60 db below 12 watts (RIAA). **Controls:** Tuner (AM 550-1650 kc; FM 88-108 mc); Function (6 pos. AM, FM Aux., LP, RIAA, Eur.); Treble; Bass; Dynamic Loudness and Power (Concentric with Contour); and Contour. Tone controls have range of 16 db at 50 and 10,000 cps. **Input Levels:** Aux. .3 volt, Phono 6 millivolts. **Tubes:** 3-12AT7, 1-6BE6, 1-6BA6, 2-6AU6, 1-6AL5, 1-12AU7, 1-12AX7, 2-6L6GB, 1-5Y3GT, 1 selenium rectifier. **Size:** 11$\frac{15}{16}$″ wide x 5$\frac{7}{16}$″ high x 11$\frac{7}{16}$″ deep exclusive of knobs. **Power Consumption:** 100 watts. **Finish:** Chassis escutcheon and cage, brushed copper; panel, matte black. Edge lighted dial glass, yellow and white. AFC defeat by depressing tuning knob. Tape output receptacle on rear, prior to tone controls. Shipping Weight 24 lbs.

Harmon-Kardon Model D-200—
Net Each.................................... $\$149^{95}$

NEW MODEL C-300 "TREND" ULTRA-LINEAR AMPLIFIER AND PREAMPLIFIER

Uses two 5881 tubes in Ultra-Linear output circuit that produces 30 watts at only ½% intermodulation distortion. **Controlled Flow Heat Exhaust System:** The cage's internal construction exhausts the heat and keeps the amplifier cool and efficient. **Dynamic Loudness Contour Control:** Provides the user with a continuous choice among one standard volume control and five differently compensated loudness controls. **Record Equalization and Rumble Filter:** Three positions of equalization and three additional identical positions with rumble filter added accommodate over 30 recording labels. All filaments of all low level tubes are DC heated. Accommodates the GE, Fairchild and Pickering cartridges directly. Rear chassis control provides instant selection of input for each. **Frequency Response:** ±1 db, 20-40,000 cps at 30 watts; ±0.1 db, 20-40,000 cps at 15 watts. **Damping Factor:** Variable from 0.1 to 20. **Hum:** Minimum volume hum, −93 db below 30 watts; auxiliary position hum, −78 db below rated power; phono position hum, −73 db below rated power. **Input:** Auxiliary, adjustable between 0.25 and 5 volts; Phono, as described above. **Output Impedances:** 4, 8 and 16 ohms. **Bass Control Range:** ±18 db at 50 cps. **Treble Control Range:** ±18 db at 10,000 cps. **Front Panel Controls:** Function Switch (9 positions: LP; RIAA; EUR; Tuner; AUX. 1; AUX. 2; LP with Rumble Filter; RIAA with Rumble Filter; EUR with Rumble Filter), Bass, Treble, Loudness, Contour. **Rear Chassis Controls:** Phono Input Selector, three auxiliary Level Controls, Damping Factor Control. **Tubes:** 2-12AT7; 2-12AU7; 2-5Y3GT; 2-5881. **Power Consumption:** 120 watts. **Dimensions:** 12½″ wide, 4″ high, 9⅝″ deep excluding knobs. **AC Receptacles:** Two powered by front panel power switch, one powered at all times. Shipping Weight: 26 lbs. Brushed copper and black finish.

Harman-Kardon Model C-300—Net Each......... $\$129^{95}$

MODEL C-100 "MELODY" AMPLIFIER

Compact, 3¼″ wide x 12½″ wide x 7⅛″ deep. Brushed copper and black to match "Theme". Incorporates 10-watt Ultra-Linear Williamson amplifier and preamplifier for superior performance. **Intermod. Distortion:** .5% at 5 watts, 2% at 10 watts. **Frequency Response:** 10-40,000 cps ±.5 db; 40-15,000 cps ±.5 db at 10 watts. **Hum Level:** 70 db below rated output. **Damping Factor:** 10. **Controls:** Function (LP-RIAA-EUR-Tuner-Aux 1-Aux 2); Contour; Loudness; Bass; Treble. **Contour Range:** 6 steps, 0-50 db Fletcher-Munson correction. 6 tube. Shpg. Wt. 11 lbs.

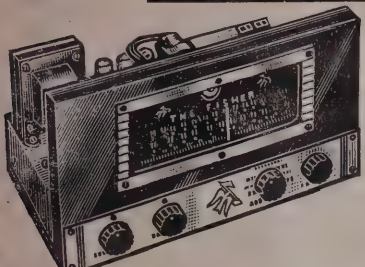
Harman-Kardon Model C-100—Net Each.......... $\$74^{50}$

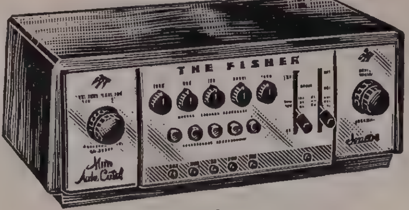
MODEL A-310 "THEME" AM-FM TUNER

Brushed copper cage and escutcheon, black panel. Armstrong FM. Cathode follower output. Tuning meter for AM and FM; 10 kc whistle filter. Flywheel tuning. **FM Select.:** 2 µv, 30 db quieting. **Image Reject:** FM 50 db max. (AFC oper.); AM 35 db min. **Distort.:** .03% at 1 v. **Freq. Resp.:** ½ db 20-20,000 cps FM; 3 db 20-5000 cps AM. **Controls (2):** Tuning and AFC defeat; Power-On-Off, AM, FM with AFC, FM without AFC. 11 tubes. Shipping Weight 14 lbs.

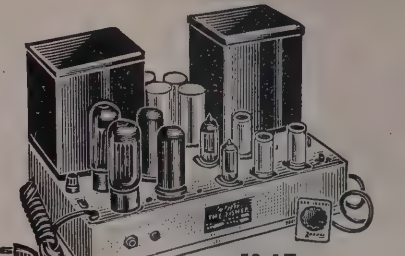
Harman-Kardon Model A-310—Net Each........ $\$125^{00}$

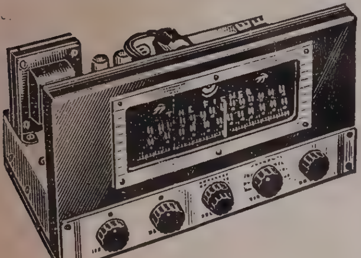
Fisher High-Fidelity Equipment

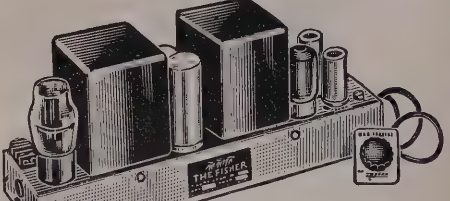

50-R



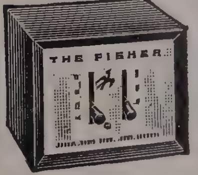
80-C


50-AZ

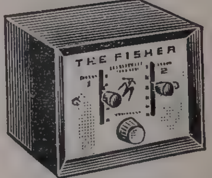

70-RT



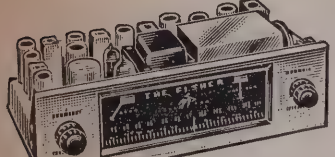
70-AZ



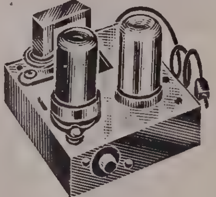
50-F



50-M, 50-PR-C



FM-80


PR-5

MODEL 50-R FM-AM TUNER

A self-powered professional tuner for hi-fi enthusiasts. Two power outlets and two auxiliary inputs. **FM Section:** Armstrong system with dual limiters, comprises cascade, tuned RF and two IF stages followed by limiters and Foster-Seeley discriminator. **AM Section:** One tuned RF and two IF stages. **Audio Amplification:** One triode stage. **Frequency Response:** 20-20,000 cps, 1 db. **Distortion:** Less than 0.8% at 10 v. output, 0.04% for 1 v. **Hum Level:** Volume control at minimum, more than 100 db below 2 v. output, more than 90 db below 2 v. with control at maximum. **Tubes:** 2-6BQ7A, 1-6CB6, 1-6BE6, 3-6BA6, 2-6AU6, 2-6AL5, 1-12AU7, 1-5Y3, 1-6U5. Cathode follower output permits use of tuner at distances of up to 200 ft. from amplifier. Dual antenna inputs, 72 or 300 ohm balanced. Loop and Dipole antennas supplied. **Four Controls:** On-Off, Volume, 6-position selector (AM-Broad, AM-Sharp, FM, FM-AFC, Phono, TV), Flywheel tuner. Large dial with logging scale, channel indicator lights. Both main chassis and front-end sub-chassis are of etched aluminum and individually shock mounted. Front panel is hammertone brown with brushed brass control marker plate. Size 14¾" x 8½" x 9¼" deep. 110-120 v., 60-cycle AC. Shipping Weight 19 lbs.
Fisher Model 50-R FM-AM Tuner—Net Each..... $\$164^{50}$

MODEL 70-RT FM-AM TUNER

A self-powered FM-AM Tuner with built-in preamplifier-equalizer of the professional quality demanded by the discriminating high fidelity enthusiast. It incorporates in one chassis Fisher's finest FM-AM tuner (for description see Model 50-R) plus built-in preamplifier-equalizer for control facilities and flexibility usually found only in separate units. FM and AM sections identical with 50-R. Built-in preamplifier-equalizer has two cascaded triode stages with adequate gain for even lowest level magnetic pick-ups. **Audio Response:** ±1 db, 20-20,000 cps. **Distortion:** Less than 0.4% for 1 v. output; 0.8% for 10 v. **Hum Level:** On radio better than 90 db below 2 v. output, volume control at minimum, more than 86 db below 2 v. output at maximum. **Outputs:** Two low impedance cathode follower type, one before tone controls for recorders, plus one main output. **Six Controls:** Bass, Treble (both continuously variable), Volume, Loudness balance, 9-position Selector (AM-Broad, AM-Sharp, FM, FM-AFC, AES, Ortho, LP, NARTB, TV), and Flywheel Tuner. **Tube Complement:** 2-6BQ7A, 1-6CB6, 1-6BE6, 3-6BA6, 2-6AU6, 1-6AL5, 1-12AU7, 1-12AX7, 1-6AV6, 1-5Y3, 1-6U5. **Size:** 14¾" x 8½" x 9¼" deep. 110-112 v. 60-cycle AC. Shpg. Wt. 19 lbs.
Fisher Model 70-RT FM-AM Tuner—Net Each.... $\$184^{50}$

MODEL FM-80 FM TUNER

A quality companion piece to either amplifier, the FM-80 combines extreme sensitivity, flexibility and micro-accurate tuning. Uses Armstrong system with cascode RF stage, two IF's, dual limiters and Foster-Seeley discriminator. **Sensitivity:** Full limiting on signals as low as 1 microvolt; on 72-ohm antenna input, 1½ microvolts for 20 db quieting, 2½ for 30 db quieting; on 300-ohm antenna input, 3 microvolts for 20 db quieting, 5 for 30 db. **Frequency Response:** Uniform ±1 db 20-20,000 cps. **Controls:** (1) Variable AFC and line switch. (2) Sensitivity. (3) Station Selector. (Adj. output level control on rear). Two meters, Sensitivity and Center of Channel. **Tubes:** 2-6BQ7A, 1-6CB6, 2-6BH6, 2-6AU6, 1-6AL5, 2-12AU7, 1-6X4. 110-120 volts, 50-60 cycle AC using 50 watts. Shipping Weight 15 lbs.
Fisher Model FM-80 FM Tuner—Net Each....... $\$139^{50}$
Model FM-M (Mahogany) or **FM-B** (Blonde) **Cabinets.**
Net Each.. **$14.95**

MODEL 50-AZ 50-WATT LABORATORY AMPLIFIER

New Z-Matic control automatically compensates for speaker or enclosure deficiencies to match acoustic balance of your room. Quality, wide range, all triode amplifier of high efficiency, low internal impedance, low harmonic distortion and intermodulation distortion at all power levels. Extremely low hum and noise level. Uses cased and potted transformers, molded capacitors, terminal board assemblies and laced cables. **High Output:** 50 watts (100-watt peak). **Frequency Response:** Uniform within ±0.1%, 20-20,000 cps. **Harmonic Distortion:** Less than 1% at 50 watts. **Intermodulation Distortion:** 0.4% at 10 watts, 0.8% at 40 watts. **Hum and Noise:** Better than 92 db below full output. **Output Impedances:** 8 and 16 ohms. Input gain control for adjustment of higher level input signals. Jack in output tube circuit for measuring plate current. Efficiency more than 55%. Separate, accessible bias control to adjust plate current. **Tubes:** 3-12AU7, 2-6CL6, 2-1614, 1-5AW4. **Size:** 8¾" x 14½" x 9" high. Uses 110-120 volt, 60 cycle AC. Shipping Weight 41 lbs.
Fisher Model 50-AZ 50-Watt Amplifier—Net Each. $\$159^{50}$

MODEL 70-AZ 25-WATT HIGH FIDELITY AMPLIFIER

New Z-Matic control automatically compensates for speaker or enclosure deficiencies. High fidelity reproduction and the absence of listener fatigue are features of this 25-watt amplifier. Low harmonic and intermodulation distortion at all levels. **High Output:** 25 watts (50-watt peak) with less than ½% distortion. **Frequency Response:** Uniform within ±0.1 db, 20-20,000 cps and ±1 db, 10-50,000 cps. **Power Output:** Constant within ±1 db at 15-35,000 cps. **Hum and Noise:** Better than 95 db below full output. **Output Impedances:** 8 and 16 ohms. **Tubes:** 1-12AT7, 1-12AU7, 2-5881, 1-5V4G. 110-120 volts 60 cycle AC. Shpg. Wt. 21½ lbs.
Fisher Model 70-AZ 25-Watt Amplifier—Net Each. $\$99^{50}$

SERIES 80-C MASTER AUDIO CONTROL

7 Inputs: 3 high level, 1 Magnetic Phono, 1 Constant Amplitude, 1 Mike, 1 Tape-Playback. 2 to 5 inputs may be mixed and used at the same time. **Output Impedances:** Both recorder and main audio are from cathode followers, permitting leads 100′ long. **Maximum Gain:** High level inputs, 21 db; low level inputs, over 53 db. **Distortion:** Harmonic—0.02% at 1 v. to 0.37% at 20 v. Intermodulation—0% at 5 v. to 0.65% at 15 v. **Frequency Response:** ±25 db, 20 to 20,000 cps. **Hum and Noise Level:** 0 with volume control at 0; more than 85 db below signal (2 v. output) with volume control at maximum; on Phono, 72 db below output with a 10 mv. input. **Controls:** Master Volume AC On-Off (usable as a Fletcher-Munsen Loudness Balance Control); 5 Channel Selectors; 5 Mixers; Low and High Frequency Equalization Switches—giving 16 combinations of phono-equalization; Bass and Treble Tone Controls. **Self-Contained Power Supply:** Shielded, potted transformer, full-wave selenium rectifier, bridge-type rectifier for DC filaments. Draws 20 watts on 105-125 v., 50-60 cps source. **Tubes:** 3-12AX7, 1-12AU7A. **Chassis:** 12¾" x 7¾" x 4¼" high. **Panel:** 4¼" x 12¾". Shpg. Wt.: 10 lbs. $\$99^{50}$
Fisher Series 80-C Master Audio Control—Net Each.
Model CM (**Mahogany**) **or CB** (**Blonde**) **Cabinet**—either—
Net Each.. **$9.95**

MODEL PR-5 PREAMPLIFIER

Use with low-level magnetic pick-ups such as GE, Pickering, Audax, Clarkstan, etc. Frequency response uniform 2 db, 30-20,000 cps. Two-stage triode amplification. 500 cycle turnover. 3¾ x3⅝" square. Shipping Weight 3¾ lbs.
Fisher Model PR-5 Preamplifier—Net Each......... $\$10^{95}$

MODEL 50-F HI-LO FILTER

Suppresses rumble, scratch, FM hiss, etc. Electronically sharp cut-off. Two 4-position levers give 16 combinations of high and low frequency cut-offs. 4⅜" x 5¹¹⁄₁₆" x 5". 105-125 volt, 60-cycle AC. Shipping Weight 3¾ lbs.
Fisher Model 50-F HI-LO Filter—Net Each......... $\$24^{95}$

MODEL 50-PR-C PREAMPLIFIER-EQUALIZER

Self powered, Use with any magnetic cartridge. Volume control. Four low-frequency turn-over points, four roll-offs. 6SC7 tube. 4⅜" x 5¹¹⁄₁₆" x 5". Shipping Weight 3¾ lbs.
Fisher Model 50-PR-C Preamplifier-Equalizer—Net.. $\$19^{95}$

MODEL 50-M MIXER-FADER

Mixes from two input signals, fading from one to the other smoothly without noise. Cathode follower permits leads to 200 ft. Self powered. 1-12AX7 tube. 4⁷⁄₁₆" x 5⅜" x 5" plastic cabinet. 105-125 volts, 60 cycles AC. Weight 3¾ lbs.
Fisher Model 50-M Mixer-Fader—Net Each.......... $\$19^{95}$

Electro-Voice Amplifiers, Tuners

E-V AMPLIFIERS, MUSIC CONTROL CENTERS, FM-AM TUNERS

Model A15CL Music Control Center and 15-Watt Power Amplifier—Handsomely styled, finished in rich brown and mocha with brushed brass trim. Incorporates E-V Circlotron circuit. Similar in appearance to Model A20CL. Power output: 15 watts rated, 30 watts peak. Frequency response 20 to 20,000 cps ±1.0 db at rated output. Distortion: Harmonic less than 0.5%, I.M. less than 1.0%. Hum and noise: 70 db below full output, −55 db magnetic channel. Controls include Power—Bass, Treble, Volume, Playing-Selector, Phono-Selector, Damping Factor. Output impedances: 4, 8, 6 ohms. Also includes tape recording output and switched AC outlet. Size: 15″ w., 12″ d., 4⅛″ h. Shipping Weight, 21 lbs. Net................**$99.50***

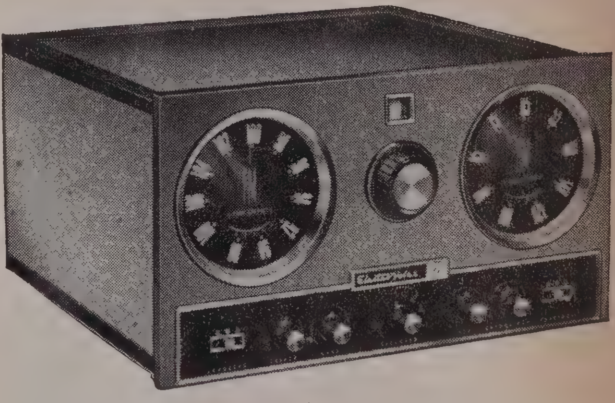
Model A20CL

Model A20CL Music Control Center and 20-Watt Power Amplifier—Beautifully styled, finished in rich brown and mocha with brass trim to compliment E-V Tuners. Features Circlotron circuit and unique "Presence" control; 20 watts rated, 40 watts peak output. Response 20 to 20,000 cps ±1.0 db at rated output. Distortion: Harmonic, less than 0.5%; I.M., less than 1.0%. Hum and noise: 70 db below full output, −55 db magnetic channel. Controls include Playing-Selector, Loudness, Power—Bass, Treble, Volume, Phono-Selector, Damping Factor. Output impedances: 4, 8, 16 ohms. Also has one switched and one live AC outlet and tape recording output. Size 15″ w., 12″ d., 4⅛″ h. Shipping Weight, 28 lbs. Net....................**$124.50***

Model PC1

Model PC1 Music Control Center—Similar to Model A20CL in styling and finish. Serves as control for power amplifiers; has self-contained shielded, low-noise power supply. Features exclusive E-V "Presence" control. Other controls include Playing Selector (tuner, tape, TV, Aux.; RIAA, LP, EUR 500X, EUR 300X, 78-500X, 78-300X phono compensation), Loudness, Bass, Treble, Bass Cut, Treble Cut, Volume, Power. Includes record output jack and four individual level balance controls, switched and live AC outlets. Size: 15″ w., 8¼″ d., 4⅛″ h. Shipping Weight, 12 lbs. Net...**$99.50***

Model PC2 Music Control Center—Similar in appearance to Model PC1. Provides control for power amplifiers; has self-contained shielded, low-noise power supply. Controls include Playing Selector (tuner, tape, TV; RIAA, EUR. phono compensation), Power—Bass, Treble, Volume. Includes record output jack, two level balance controls, switched AC outlet. Size: 15″ wide, 6¼″ d., 4⅛″ h. Shipping Weight, 11 lbs. Net........**$67.00***



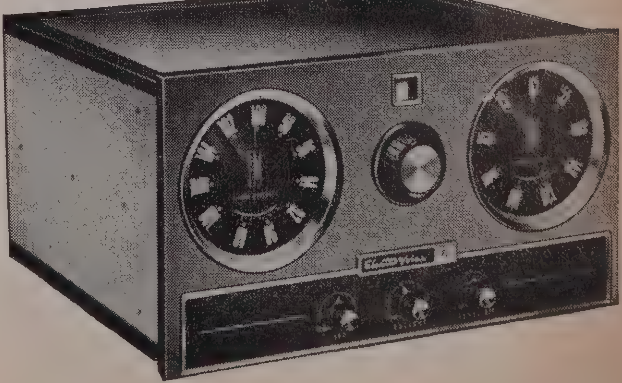
Model 3303

ELECTRO-VOICE BINAURAL FM-AM TUNERS

Model 3303 FM-AM Tuner with Preamplifier—Custom-styled high-fidelity tuner with latest deluxe circuit features. Combines excellent sensitivity, micro-accurate tuning and drift-free operation. Completely independent AM and FM sections, including separate tuning dials, permit reception of stereophonic broadcasts. Included among its features are dual signal strength meters, magic eye tuning aid, preamplifier with individual power supply.

Dual limiters, cascode RF stage and audio squelch circuit provide extreme sensitivity and noise rejection. Cathode follower output. Other deluxe features include variable AFC tape output jack, and 3-position "Presence" switch. Controls: Selector for tuner, tape, auxiliary and phono inputs; 3-position loudness control; 3-position equalizer, phono switch (magnetic or ceramic-crystal); bass, treble and volume. Sensitivity: FM, 1 μv for 20 db quieting; AM, 5 μv for 2 v. AVC 10 kc. whistle filter. Output 1.25 volts per tuner.

Sixteen tubes plus 5Y3GT, 6X4 rectifiers and 6AL7 tuning eye. Finished in handsome Mocha baked enamel with dark brown escutcheon and brushed brass trim. Brushed brass chassis with brown cover. 15″ w., 14½″ d., 8″ h. For operation from 110-120 volts 60 cycle AC. Shipping Weight, 40 lbs. Net....**$279.50***



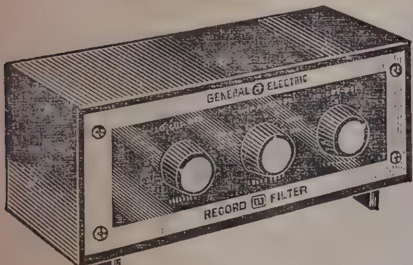
Model 3304

Model 3304 Basic FM-AM Tuner—Similar to Model 3303 but for use with separate preamp and amplifiers having complete set of controls. Has AFC volume and FM-AM balanced-level controls. Thirteen tubes, plus 1 rectifier and tuning eye. Size 15″ w., 14½″ d., 8″ h. For 110-120 volts 60 cycle AC. Shipping Weight 38 lbs. Net...**$239.50***

*Price slightly higher west of the Rocky Mountains.

General Electric Hi-Fi Equipment

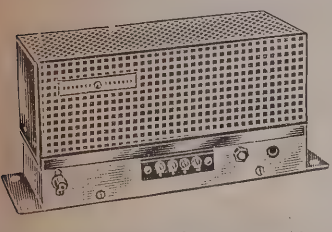
NEW A1-901 THREE-WAY RECORD FILTER



A triple duty high fidelity filter-compensator that restores much of the original richness to worn, warped, noisy records. Has three filters and 14 adjustments covering the full audio frequency range. Adjustments balance tone, cut undesirable noise. Rumble, hiss and scratchy noises from record imperfections or excessive turntable or arm vibrations are filtered out. Three filters are: Low Frequency Cutoff. High Frequency Cutoff and 6-position Record Compensator that matches the individual system to Flat, Eur 78, Lon LP, AES, RIAA, Col LP recording curves. Lo-Cutoff control with four adjustments (0, 40, 60 and 80 cps) suppresses turntable rumble and vibration and spurious low frequency signals caused by disc irregularities. Sharp cutoff of 12 db per octave in three positions protects speaker from subaudible surges. Hi-Cutoff control with four adjustments (3, 5, 9 kc and FLAT) suppresses record scratch and high frequency distortion. Sharp cutoff of 12 db per octave is obtained with three settings, removed when in FLAT. **Input:** Filter is connected between the pickup cartridge and the preamplifier. Connector plug is furnished. **Output:** Shielded output lead plugs directly into preamplifier input jack. **Dimensions:** Mahogany colored plastic cabinet 7 9/16" long x 3 9/16" deep x 3 9/16" high is removable. Shipping Weight 6 lbs.

Model A1-901—3-Way Filter. Net Each............ $19.95

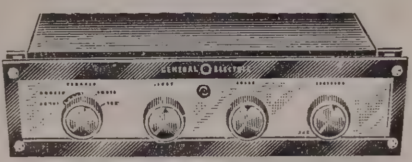
A1-300 10-WATT HI-FI AMPLIFIER



A high-quality basic "flat" amplifier. Compact in size. 15 db inverse feedback loop, split-load triode phase inverter drives two 6V6GT tubes in push-pull output stage. Hum balance control. **Frequency Response:** ±2db, 30-15,000 cps at ½ watt out. **Distortion:** (harmonic) less than 1% at 10 watts; intermodulation less than 5% at 10 watts. **Hum and Noise:** 70 db below rated output. **Input Sensitivity:** 2 volts for 10 watts output with provision for increasing to 0.3 volt. **Tubes:** 1-12AX7; 1-6C4; 2-6V6GT; 1-5Y3. **Applications:** (1) With Model A1-200 Preamplifier Control Unit, (2) With competitive preamplifier control units or FM-AM tuners having their own controls. (3) As a booster amplifier for driving additional speakers in all types of audio systems. (4) As a monitor amplifier for broadcast and recording studios. **Power Used:** 105 to 125 volts, 60 cycles AC. 70 watts input. **Size:** 12¼" x 4½" x 5½" high.

Model A1-300—10-Watt Hi-Fi Amplifier. Net Each... $47.75

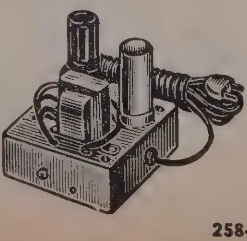
A1-200 PREAMP CONTROL UNIT



A completely self-contained, self-powered unit. It combines the functions of an equalized preamp. plus adjustable record compensation, program input selection, individual bass and treble tone controls, and loudness control. Designed primarily for GE cartridges, but may be used with other makes by slight modifications. **Selector Switch: 1,** Noisy 78; **2,** European 78; **3,** AES; **4,** Flat; **5,** LP records; **6,** Radio; **7,** Auxiliary. Treble control continuously variable; 15 db boost and 16 db atten. at 15,000 cps. Bass control continuously variable; 13 db boost at 50 cps, 15 db atten. at 50 cps. Loudness control compensates for reduced aural sensitivity at low levels, may be replaced by conventional control through switch at rear of chassis. **Output:** 2 volts nominal. **Output Impedance:** 4000 ohms. **Gain:** 46 db. **Distortion:** (harmonic) less than 1% with 20 mv input; less than 2% with 70 mv input. **Inputs:** Three, for variable reluctance pickups, for AM-FM tuner and for TV sound or tape recorder. **Tubes:** 1-6SC7, 1-12AX7, 1-12AU7 and 1 selenium rectifier. **Power:** 105-120 volts, 50-60 cycles AC. Two AC power output receptacles, AC Off-On Switch and Pilot Light. 6-foot cord with plugs to connect signal to power amplifier.

Model A1-200—Preamplifier Control Unit. Net Each.. $57.95

PHONO PREAMPLIFIER

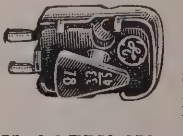


New self-powered model. Increases output of GE cartridges to higher level, allowing use with any amplifier. Includes improved equalizing network, permits use of up to 50-ft. of cable. With phono input jack on chassis. 14-in. of shielded cable and plug. 6SC7 tube and selenium rectifier, and instructions. For 110-120 volts, 60 cps. 3⅝" x 3⅝" x 1¼". **Model UPX-003A**—Net. $10.77

CLIP-IN TYPE VARIABLE RELUCTANCE CARTRIDGES

Both single and triple-play cartridges faithfully translate the ful range and high and low frequencies with minimum distortion Noise and needle scratch are eliminated. Special stylus suspensio for sensitive compliance to record impressions. New **CLIP-IN TI Stylus Assemblies and Stylus Inserts** make replacement a simple instant thing. No springs to remove. No need to replace entir assembly when only stylus is worn. In systems with single pla cartridges, inserts can be interchanged for LP or 78 recordings

TRIPLE-PLAY CARTRIDGES



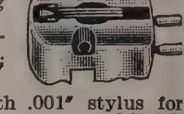
Plays 33 and 45 rpm microgroove or standar 78 rpm records using a turn-around retractin stylus. Dual sapphire tipped, baton typ stylus is easily replaceable. Both long an short knobs are included to fit most tone arms All necessary mounting hardware and easy-to-follow installation instructions are included Size 23/32" x 1 3/16" x 1 1/16". Shipping wt., 4 oz

Model RPX-050A Dual Tip Cartridge. With .001" sapphire tip fo 33 and 45 rpm records and .003" sapphire tip for 78 rpm records. Net Each.................................... $8.37

KNOB KIT FOR TRIPLE-PLAY CARTRIDGES

Model RKP-009—Includes washers, spring and plastic knobs, long and short shank. Net Each................ 28c

SINGLE-STYLUS CARTRIDGES



These cartridges have replaceable single-tipped stylus. Fit any pickup with ½" mounting centers. 1 21/32" x ¾" x 9/16".

Model RPX-040A—For standard 78 rpm records. Minimum needle pressure, 6-8 grams. 10 mv output at 1000 cps. With .003" sapphire stylus. Shpg. Wt., 4 oz. Net. $5.97

Model RPX-041A—Same as RPX-040A, with .001" stylus for microgroove. Net Each.................................$5.97

"GOLDEN TREASURE" CARTRIDGES

Triple-Play Turn-Around Cartridge. These deluxe gold plated cartridges feature diamond tips for minimum record wear and longest stylus life. They are designed for those who demand the best to protect their records. All models have diamond tips except RPX-052 which has diamond for the microgroove side, but sapphire for the 78 rpm side. Shipping weight, 6 oz.

Model RPX-052A Dual Tip Cartridge. With .001" diamond tip and .003" sapphire tip. Net Each.......... $23.37

Model RPX-053A Dual Tip Cartridge. With diamond tips .001" and .003". Net Each..................... $34.74

Single Stylus Cartridge—Same high quality as "Golden Treasure" Triple-Play Cartridges above, but with one diamond tip only. Weight, 6 oz.

Model RPX-061A Single Stylus Cartridge. With .001" diamond tip for 33 and 45 rpm records only. Net Each. $20.37

Model RPX-063A Single Stylus Cartridge. With .003" diamond tip for 78 rpm records only. Net Each...... $20.37

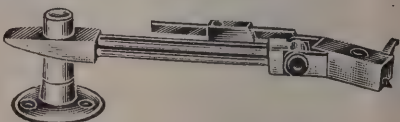
REPLACEMENT STYLI

G.E. No.*	Radius, In.	Net	G.E. No.*	Rad., In.	Net
RPJ-007A (S)	.001, .0025	$ 3.57	RPJ-006 (S)	.0025	$2.10
RPJ-010A (S)	.001, .003	3.57	RPJ-001 (S)	.003	2.10
RPJ-013A (D-S)	.001, .003	18.60	RPJ:004 (D)	.001	16.50
RPJ-011A (D)	.001, .0025	29.97	RPJ-002 (D)	.0025	16.50
RPJ-012A (D)	.001, .003	29.97	RPJ-003 (D)	.003	16.50
RPJ-005 (S)	.001	2.10	#RPJ-01S (S)	.001	2.00
#RPJ-01D (D)	.001	16.00	#RPJ-02S (S)	.0025	2.00
#RPJ-02D (D)	.0025	16.00	#RPJ-03S (S)	.003	2.00
#RPJ-03D (D)	.003	16.00	....	....	.....

*(D)—Diamond; (D-S)—Diamond, Sapphire; (S)—Sapphire.
#Stylus inserts for use in single and dual assemblies.
NOTE: Some sapphires are synthetic.

TONE ARMS

A1-500 "BATON" TONE ARM



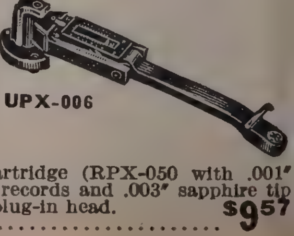
Built of strong, light-weight aluminum for minimum lateral and vertical inertia. Cartridge pressure quickly and accurately adjustable by means of sliding weight. Stylus pressure shown directly in grams on a calibrated scale. Cartridge head tilts upward 90°. Precision ball bearing system, outstanding tracking ability, spherical base mount, no torsional resonances. Standard ½ inch cartridge mounting centers.

Model A1-500—10⅞" long for records to 12". Net Each. $31.95

Model A1-501—14⅛" long for records to 16". Net Each. $35.50

REPLACEMENT COMPONENTS

Model UPX-006 (Illus.)—Plays Equipped with RPX-050 cartridge. Net Each $11.97



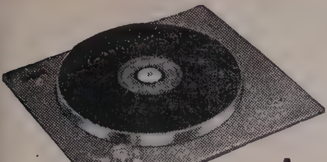
UPX-006

Model UPX-009—Conversion arm for Webster-Chicago "1" changer models. Equipped with RPX-050 Triple Play cartridge. Net Each............... $9.33

Model UPX-111—Triple-Play Cartridge (RPX-050 with .001" sapphire tip for 33⅓ and 45-rpm records and .003" sapphire tip for 78-rpm records) in a Webster plug-in head. Net Each.......... .... $9.57

258-55A

Rek-O-Kut Phono Equipment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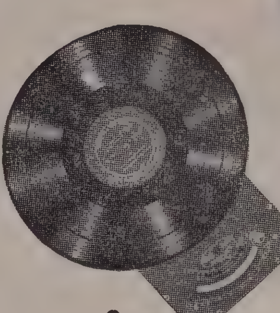
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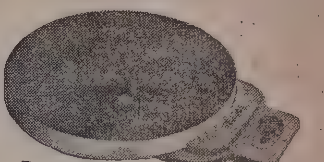
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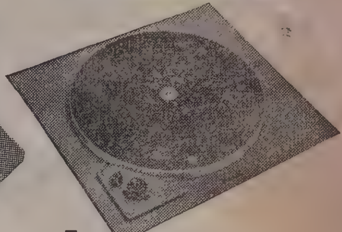
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Fig. A. Model B-12H Rondine 3-Speed Turntable—The finest of Rek-O-Kut's 12-inch turntables. Hysteresis synchronous motor assures smoothest possible operation, virtually eliminating wow, rumble and flutter. Single selector knob with "Off" position next to each of the three speeds—no need to turn through other speeds to turn off turntable. Noise level more than 50 db below average recording level. Permanently affixed strobe disc for instant speed check. Built-in retracting 45 rpm hub requires no external adapter. Cast aluminum deck permits mounting in most phono cabinets; finished in gunmetal gray. 15¾" x 14". Clearance below deck 6½", above deck 1½". Jewel light indicates off-on. Shipping Weight 16 lbs.

Model B-12H—DeLuxe Rondine. Net Each........ $119.95

Model B-12—3-Speed Turntable same as above but has 4-pole induction motor and noise level is 40 db below average recording level. Net Each.......................... $74.95

Fig. B. Model L-34 Rondine Jr. 2-Speed Turntable—33⅓ and 45 rpm speeds for currently popular recordings. 4-pole induction motor. Noise level more than 40 db below average recording level. Controlled by single slide switch that locks into position. Strobe disc and 45-rpm retracting hub built-in to turntable. Heavy steel plate deck, hammertone gray finish. 12" x 15" overall, 1⅜" above deck, 5" below. Weight 14 lbs.

Model L-34—2-Speed Turntable. Net Each........... $49.95

Fig. C. Model CVS-12 Continuously Variable Speed 12" Turntable—Any speed 20 to 100 RPMs, 50 or 60 cycles. Ideal for areas of fluctuating power, or with portable power plant. **Dimensions:** 16" long, 12" wide, 1½" above board, 5" below.

Model CVS-12—Net Each......................... $84.95

Model C-43-V—Case for CVS-12. Net Each.......... **$24.95**

Fig. D. Model G-2, 78 and 33⅓ RPM, 16" Turntable—A precision lathe-turned balanced turntable of special aluminum alloy normalized to prevent distortion. Constant speed induction motor. Manual shift. Accelerates to 78 RPM in ¾ turn, to 33⅓ RPM in ¼ turn. Meets NAB standard for speed variation and wow content. **Dimensions:** 16" long, 20" wide, 2½" high above board, 5" below. Weight 26 lbs.

Model G-2—Net Each......................... $137.50

Model G-2—De Luxe. With Hysteresis Synchronous Motor, and Mastermatic Shift. Net Each................. **$179.95**

Model G103A—45 RPM Idler and Adapter for above. Net. **$8.00**

"CHALLENGER" PROFESSIONAL 13¼" 3-SPEED DISC RECORDER

The "Challenger" is a professional 13¼" disc recorder for cutting 33⅓, 45 and 78-rpm masters from 6" to 13¼". 16" pickup arm with dual sapphire magnetic cartridge plays up to 16" transcriptions, standard commercial pressings and micro-grooves. Precision machined aluminum turntable with 2 double-duty neoprene idlers for internal rim drive. Overhead recording mechanism features the Liftomatic Safety Cam that prevents double cutting and damage to cutting stylus by automatically raising stylus as it approaches center of record. Easily interchangeable lead-screws. Sturdily constructed using the unit assembly method with proven REK-O-KUT recording components. 10-inch wide-range PM speaker. Built-in Model R-8A Amplifier (described below). Sturdy plywood case covered with gray leatherette cover. Lid contains the speaker. Operates on 105-125 volts, 50-60 cycles AC. Size 25 x 22 x 12 inches. Wt. 65 lbs.

DeLuxe Model Challenger Recorder—Net Each.... $459.95

Model R-8A Amplifier Only—Output: 13.5 watts. **Frequency Response:** 30-20,000 cps ±1 db. **3 Inputs:** Microphone, Tuner, Other. **Separate Bass and Treble Controls:** Continuously variable, permit up to 14 db boost and up to 14 db attenuation at 50 and 10,000 cps respectively. 3-position monitoring loudness level switch. **Gain:** 120 db from mike inputs; 80 db from tuner and auxiliary inputs; 90 db from phono pickup. **Output Impedances:** 8, 15 and 500 ohms for cutter and speaker. **Tube Complement:** 2-6SJ7, 2-6SL7, 1-6SC7, 2-6V6, 1-5Y3. **Size:** Panel, 19 x 6¼"; chassis 17" x 8¾" base. For rack mounting. **Power Consumed:** Uses 105-125 volts, 50-60 cycles, 100 watts. Wt. 17 lbs.

Model R-8A—Amplifier only. Net Each........... $149.95

Model C-85 Portable Case for Amplifier Only—For Models R-8A or R-5A Amplifiers only. Net Each...... $22.95

Fig. E. Model B-16H 3-Speed, 16" Transcription Turntable—Designed for the three popular recording speeds. **Noise Level:** 50 db below average recording level. **Turntable:** cast aluminum, lathe-turned, sub-mounted in base. **Motor:** Hysteresis Synchronous. Meets NAB standard for speed variation and wow content. Instantaneous speed change. Accelerates to 78 RPM in ¾ turn. to 45 and 33⅓ RPM in ¼ turn. **Finish:** Blue-grey wrinkle. **Dimensions:** 18¾" long, 20" wide, 1½" high above board, 6" below. Weight 30 lbs.

Model B-16H—Net Each....................... $250.00

Model LP-743 3-Speed, 12" Transcription Turntable—(Not Ill.) An excellent turntable priced between deluxe and ordinary models. Designed for easy replacement of obsolete turntables in the average console. **Noise Level:** 30 db below average recording level. **Turntables:** aluminum casting, lathe-turned and balanced. **Motor:** Induction type, smooth, quiet, vibration-free operation. Lamitex pulley. **Shaft:** hardened, ground and polished. Instantaneous speed change while running. **Finish:** Grey Hammertone. **Dimensions:** 12" long, 15" wide, 1⅜" high above board, 5" below. Weight 10 lbs.

Model LP-743—Net Each $59.50

Model C-43—Case for LP-743.
Net Each............... **$22.95**

CONSOLE CABINET

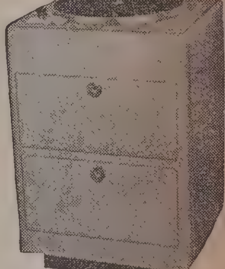

F

Fig. F. Model C-7B Console Cabinet for B-16H Transcription Turntable—Designed to receive B-16H turntable without the use of screws or bolts. Floats on felt. Features two storage compartments with piano hinges and flush ring-latches. Includes built-in electrical outlets and adjustable leveling casters. **Finish:** Metallic-grey. **Dimensions:** 33" H., 22" W., 20½" D.

Model C-7B—Net Ea.. $109.95

THE REK-O-KUT RECITALIST

A portable 3-speed high fidelity phono for professionals, music lovers, schools, advertising agencies, etc. A microphone input enables "mixing" of live music or voice with recording, or as a public address system. The POLYPHONIC SELECTOR maintains tonal balance and equalization for any type of record.

Turntable: Precision machined aluminum 3-speed (78, 45 and 33⅓ RPM). Internal rim drive. Heavy-duty, dynamically balanced motor. **Pickup Arm:** 16" with dual stylus carriage, plays 16" broadcast transcriptions, commercial pressings and micro-groove records. **Speaker:** 10" PM type with 6.8 oz. Alnico V Magnet.

Amplifier: Frequency response controlled by Polyphonic Selector. Pos. No. 1 uniform within 1 db from 50 to 15,000 cycles; Pos. No. 2 bass up 4 db at 100 cycles, treble uniform above 5,000 cycles; Pos. No. 3 bass up 6 db at 100 cycles, treble uniform above 5,000 cycles; Pos. No. 4 uniform from 50 to 3,000 cycles, increasingly sharp cutoff, 14 db down at 10,000 cycles. **Case:** Sturdy plywood leatherette covered. **Dimensions:** 17" wide, 9½" high, 21¼" deep closed. Weight 38 lbs.

Model RP-43-M Recitalist—Complete with magnetic pickup. Net Each........................ $239.95

Model RT-43-M Recitalist—As above but with twin speakers. Net Each........................ $279.95

THE REK-O-KUT RHYTHMASTER

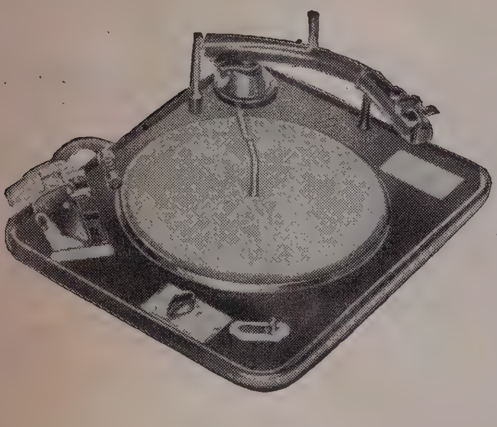
Same as the Recitalist except has continuous variable speed turntable from 25 to 100 RPMs.

Model RP-43-VM Rhythmaster—Complete with Magnetic pickup. Net Each..................... $279.95

Model RT-43-VM Rhythmaster—As above but with twin speakers. Net Each...................... $319.95

GARRARD *Changers and Players*

"TRIUMPH" MODEL RC 80 RECORD CHANGER



The improved RC 80 has all the former quality features PLUS innovations that make it even better. Plays 33⅓, 45 and 78 rpm 7", 10" and 12" records. With simple adjustments, action is almost automatic. Shuts off quietly after last record, as condenser-resistor network prevents "plop" noise. Tone arm shell accepts almost any crystal or magnetic cartridge. New finger lift for ease in selecting groove or record band manually. (Except during changing cycle, arm can be moved freely in either direction.) Stylus pressure is adjustable from the top. Easily mounts to motor board with snap springs. Levels from top with screwdriver. Mounting holes are standard with former Garrard changers. Machined, weighted turntable driven by heavy duty 4-pole motor with no rumble. Pull-away idler prevents flatting when changer is not operating. Pawl guide longer to accommodate thicker and thinner records. Pusher-type platform adjusts to all 7", 10" and 12" records, regardless of size of spindle hole. Rumble-free spindle thrust assembly supported by new Garrard designed plastic washer of extra durability. Watch-like precision construction with every precaution against vibration and rumble. Soft, flexible motor leads avoid even slight vibrations being transmitted to the motor plate. Drive belts insulate against rumble. New Garrard Crowned Interwheel prevents rumble and flutter. Operates on dual-voltage, 100-130 volts or 200-250 volts, 60 cycle AC, 50 cycle bushing available. U/L approved 6-ft. line cord and 4-ft. pickup cable. 13¼" wide x 15½" deep with 5¾" clearance above and 3½" below top of motor board required. Order 45 rpm spindle below.

Garrard Model RC 80—Changer less cartridge. Net Each............ $49.50

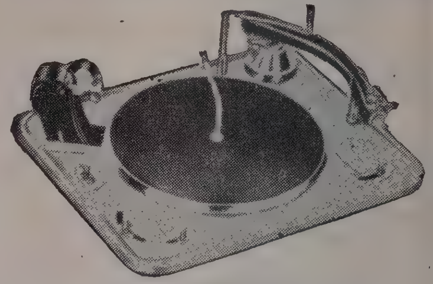
Garrard Model RC 80/GE—With GE RPX050 with two sapphire needles. Net Each..$56.50

Garrard Model RC 80/GED—With GE RPX052 with diamond-sapphire needles. Net Each..$71.50

Garrard Model RC 80/AC/DC—Same as RC-80 but for AC or DC. Net $67.00

Garrard Model RC 80/DC—Same as RC-80 but for DC only. Net Ea...$59.70

"CROWN" MODEL RC90 RECORD CHANGER



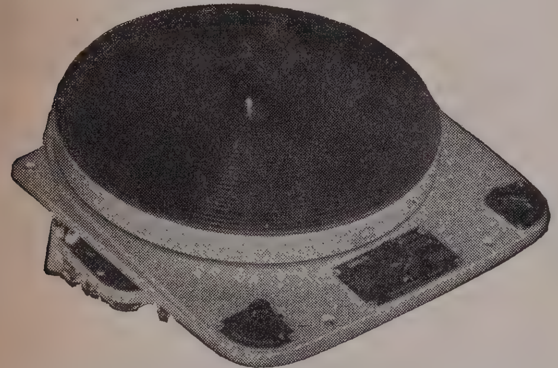
A deluxe changer with all the fine features of the RC-80 above PLUS the added advantage of a variable speed control. This speed variation is of particular advantage for music students and high fidelity listeners who wish to vary instrumental pitches slightly to their own requirements or tastes. In addition, features the ease and precision of operation for which Garrard is famous. It operates on dual voltages, 100-130 or 200-250 volts, 60 cycles AC, and a 50-cycle bushing is available. Space required is 13¼" wide x 15½" deep with 5¾" clearance required above and 3½" below the top of the motor board. Order 45 rpm spindle from accessories below.

Garrard Model RC 90—Changer, less cartridge. Net Each................ $69.50

Garrard Model RC 90/GE—Changer, with GE RPX050 with two sapphire tips. Net Each..$76.50

Garrard Model RC 90/GED—Changer, with GE RPX052 cartridge with diamond LP tip and sapphire standard tips. Net Each.............................$91.50

"PROFESSIONAL" MODEL 301 HIGH FIDELITY TRANSCRIPTION TURNTABLE



New design is intended to provide the professional user and the home quality enthusiast with the finest transcription turntable in its class. Heavy duty shaded 4-pole motor mounted specially to eliminate vibration. **Speed Variations:** 32-34 rpm; 44-46 rpm; 76-80 rpm. **Brakes:** Eddy current type. **Wow:** Less than 0.2%. **Flutter:** Less than 0.5%. **Rumble:** Virtually None. **Size:** 13¾" wide x 16" deep x 3½" below top of motor board. Shipping Weight 20 lbs. Net Weight 16 lbs.

Garrard Model 301—Turntable Only. Net Each...... $89.00

Garrard Model WB-301—2-pc. Ebony finish base with spirit level. Accommodates 12" or 16" transcription arm. Net.$24.50

Garrard Model MB-301—2-pc. unfinished, smooth sanded mounting base with level. Accommodates 12" or 16" arm. Net...$9.00

"CREST" MODEL "T" THREE-SPEED MANUAL RECORD PLAYER

Incorporates all basic record playing features of Model RC80. Adjusts precisely to all speeds. Start by moving arm, shuts off automatically. Fits all popular cartridges. Condenser-resistor network across switch eliminates shutoff noise. 4 pole heavy duty motor. 45 rpm adapter. Plays all records without plugs. Easy to operate, long life. Supplied with one 6 ft. line cord and one 4 ft. pick-up cord, both with pin jack terminals. Cabinet Dimensions: 13¾" left to right; 12¾" front to rear; 3¼" clearance below top of motor board 100/300 and 200/250 volts. 60 cps. 50 cps bushings available.

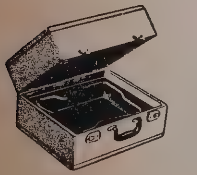
Garrard Model T—Player less cartridge, plus 45 rpm adapter. Net Each........................... $32.50

Garrard Model T/GE—Player, 45 rpm adapter, with GE RPX050 dual sapphire cartridge. Net Each....... $39.50

Garrard Model T/GED—Player, 45 rpm adapter, with GE RPX052 diamond-sapphire cartridge. Net Each... $54.50

ACCESSORIES

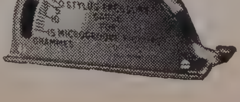
CARRYING CASE



Sturdy luggage-type carrying case of seasoned wood, covered with durable simulated leather. Smart looking white piping runs completely around case. Finest brass hardware. Available with either a solid mounting board or with a mounting board cut out to fit RC80 or RC90.

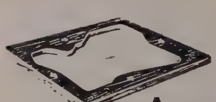
Garrard Model CC—Net Each...$14.50

STYLUS PRESSURE GAUGE



A highly sensitive, yet inexpensive instrument that measures stylus pressure of pickups. Scientifically calibrated with large easy-to-read markings at 1-gram intervals. Precision construction of lightweight alloy and sealed in to prevent damage. Red and white plastic case.

Garrard Pressure Gauge—Net $2.50



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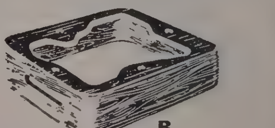


B

C

MOUNTING, BASES

Garrard Model MB-80/90 (Fig. A)—Mounting Board cut to fit RC80 or RC90. Unfinished ⅝" Gumwood. Net Each.................................$2.50

Garrard Model MB-T—Mounting Board, same but cut to fit Model T. Net Each..............................$2.50

Garrard Model WB-80/90 (Fig. B)—Mounting Base. Fine veneer finished to match motor plate. Fits RC80 or RC90. Net. $5.95

Garrard Model WB-T—Mounting Base fits Model T.Net $5.25

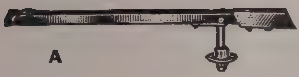
45 RPM ADAPTER

Garrard 45 Spindle (Fig. C)—Automatic spindle adapts RC80 and RC90 for 45 rpm records. Net Each.....................$3.50

Garrard Model GX (Not Ill.)—Shell with turnover cartridge for RC80, RC90 and T Models. Net Each...............$6.00

Transcription and Phono Arms

LIVINGSTON EQUIPMENT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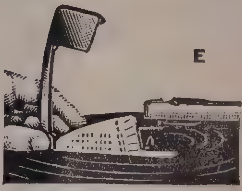
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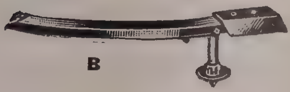
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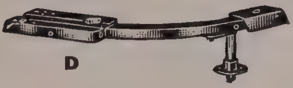

D

Fig. A. Model A-16 Arm—For transcriptions up to 17″. Meets the demand for a reasonably priced professional type arm. Accommodates most cartridges with ½″ mounting centers. Has enclosed precision instrument ball bearings, vernier adjustment on stylus pressure, adjustable height for mounting, low arm resonance characteristics, low friction bearing surfaces. Finish: durable gray. Length 15¾″. Not recommended for LP's.
Model A-16 Arm—Net Each..................... $16.75

Fig. B. Universal Reproducer Arm—Has all the features of the A-16 Arm. In addition offers: excellent tracking on BOTH 12″ and 16″ records, adjustable counterweight for LP's, stylus pressure range from 6 to 30 gms. for most cartridges, less mounting space. Finish: durable gray. Adaptable to G.E. triple-play cartridges at small extra cost.
Universal Reproducer Arm—Net Each............. $24.95

Fig. C. Special Reproducer Arm—For GE dual cartridge only. A special version of the Universal Reproducer Arm.
Special Reproducer Arm—Net Each............... $21.50

Fig. D. Binaural Arm—Plays binaural OR conventional recordings. Less expensive than two arms. Uses conventional cartridges. Easily adjusted, independent action for each cartridge. Negligible tracking error. Finish: durable gray.
Binaural Arm—Net Each......................... $39.95

Fig. E. Stylus Pressure Gauge—An accurate, economical gauge for checking stylus pressures. Incorrect pressures damage both stylus and record. Fidelity of reproduction is also affected. Gauge has two scales—0-10 grams for micro-groove series, 10-30 grams for standard series. Attractive, rugged plastic case.
Stylus Pressure Gauge—Net Each.................... $1.89

GRAY RESEARCH TRANSCRIPTION EQUIPMENT

MODEL 108-B "VISCOUS-DAMPED" TONE ARM

For all 33⅓, 45 and 78 rpm records. A new design, satisfying every feature of LP reproduction Plug-in feature permits instantaneous changing from 78 to LP or 45 rpm records, with **correct stylus pressure automatically obtained.** Will accommodate all most popular cartridges. Perfect tracking of records. 5 gram stylus pressure. No groove-jumping at fundamental resonance frequency. Adjustable for degree of damping. Prevents damage due to dropping. Perfect contact with bad records. For records to 16″.
Gray Model 108-B Arm—Net Each................. $56.00

MODEL 108-C ARM

The new Economy model **Viscous-Damped** Hi-Fi arm. Lightweight magnesium case. Rigid base assembly. **Manually operated setting for automatic adjustment of viscosity** to govern daming. For 33⅓, 45 and 78 rpm records, up to 16″ diameter. **Slide-in cartridge feature**—comes with three removable cartridge slides (G. E. 7 gr., Pickering 7 gr., Fairchild 7 gr.).
Gray Model 108-C Viscous Damped Tone Arm—Net $39.95

MODEL 103-S TRANSCRIPTION ARM

A lower priced Transcription Arm designed and engineered for conventional 78 rpm records. Quality construction for long faithful reproduction. Magnesium arm provides featherlike touch for excellent performance.
Gray Model 103-S Transcription Arm—Net Each.... $39.75

MODEL 103-LP TRANSCRIPTION ARM

An LP arm that is recommended for use with 33⅓, 45 or 78 rpm records. Features the finest angular contact ball-pivot for smooth tracking. Adjustable counterweight permits accurate setting of precise stylus pressure for Microgroove records—increases record life and provides faithful reproduction.
Gray Model 103-LP Transcription Arm—Net Each... $43.45

MODEL 106-SP TRANSCRIPTION ARM

The versatile new Gray 106-SP Transcription Arm has been designed to meet the strictest requirements of modern highly compliant pickup cartridges. 3 cartridge slides furnished with this arm enable GE-1 mil, GE-2½ or 3 mil cartridges or Pickering cartridges to be slipped into position in a jiffy—ready to use. The correct stylus—quickly—easily interchangeable, without tools or solder. Finest reproduction of 33⅓, 45 and 78 rpm records with one transcription arm. Less cartridge.
Gray Model 106-SP Arm—Net Each... $45.15
Gray Model 103-S 78 rpm Transcription Arm—Net **$39.75**

MODEL 602C EQUALIZER

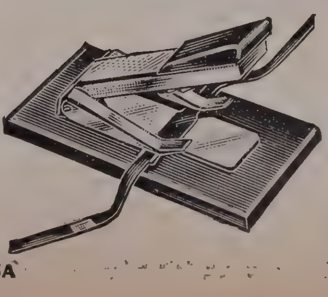
Designed for use with GE RPX-046 Cartridge. Features advanced design, instant input switching from conventional to microgroove records, trouble-free operation. For standard mike preamplifiers. **Response:** 5-15,000, ±15 db. **Hum Sensitivity:** Unmeasurable. **Output Impedance:** 150 ohm balanced. **Insertion Loss:** 20 db. **Output Level:** −67 VU at 4.7 cm/sec. **Size:** Switch—3¼″ x 3⅝″ x 3″ high; Component Can—3⅞″ x 3⅞″ x 5⅜″. With 18″ cable.
Gray Model 602C Equalizer—Net Each............. $49.50

FAIRCHILD IMPROVED SERIES 280 TRANSCRIPTION ARM

Professional performance, yet low in price, the Fairchild 280 Series Plug-in Type Transcription Arms represent an exceptional engineering feat. Perfect tracking keeps cartridge in the groove where it belongs. No jumping or climbing the walls of the groove. Easily mounted with simple provisions for height and leveling adjustments. Stylus pressure easily changed with concealed thumbscrew. Arm will accept any standard variable reluctance or dynamic cartridges. Arm drop limit adjustment prevents damage to stylus, should arm drop on turntable. No objectionable hum when changing cartridges. Self-locking stop holds arm securely in place. Arm easily swings to playing position. Two models available: the regular **Model 280A** Arm for installations requiring the optimum in performance, and the **Model 281A** a longer arm made for playing 16-inch transcriptions in broadcast stations and/or the home.

Fairchild Model 280A—Net Each..... $33.95 **Fairchild Model 281A**—Net Each..... $35.95

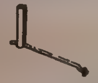
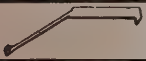
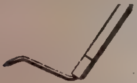
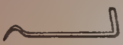
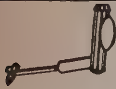
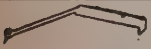
ROBINS "GIBSON GIRL" TAPE SPLICER



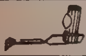
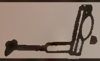
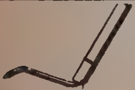
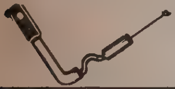
Cuts two rounded indentations in the splice, giving the splice a "Gibson Girl" shape. This leaves the edges of the tape, which contact parts of the recorder, entirely free of adhesive, which, when deposited on critical parts of the recorder when tape is in motion, is a frequent cause of erratic operation, wow and flutter.
Robins Model TS-4—Tape Splicer. Net Each........... $6.79

Recoton Replacement Phoneedles

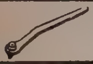
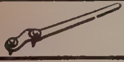
FOR ASTATIC CARTRIDGES

Illustration	Series	Tip*	Stand.	Micro.	All-G.	Net
	AC, ACD	O	354	355	356	$ .90
		J	371	370	372	1.50
	MD	O	357	358	378	.90
		J	359	360	379	1.50
	LT, LT-D's	O	304	320	338	.90
		J	336	387	388	1.50
	GC	O	321	322	339	.90
		J	3/4	373	340	1.50
	QT, CAC, LQD	O	301	316	336	.90
		J	302	3 3	337	1.50
	U	O	342	341	...	.90
		J	344	343	...	1.50

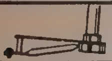
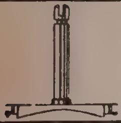
FOR COLUMBIA PLAYERS

Illustration	Player No.	Tip*	Micro.	A-G	Twin	Net
	101	O	307	...	...	$ .90
		J	308	...	...	1.50
	102, 103, 104	J	303	...	...	1.50
	105	O	...	338	...	.90
		J	...	388	...	1.50
	360	..	...	...	335	2.10

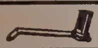
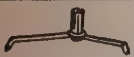
FOR ELECTRO-VOICE CARTRIDGES

Illustration	E-V No.	Tip*	Stand-	LP	A-G	Twin	Net
	O series	O	329	330	335	...	$ .90
	S series	J	333	334	375	...	1.50
	O-13 SO-13	O	...	...	...	331	1.50
		J	...	...	...	332	2.10

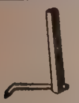
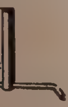
FOR GENERAL ELECTRIC CARTRIDGES

Illustration	Cart. No.	Tip*	Stand.	Micro.	Twin	Net
	RPX-040, RPX-041, RPX-046	J	366	367	369-Tr.	$2.10
	RPX-050, RPX-047	J	...	...	368	3.57

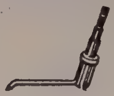
FOR MAGNAVOX CARTRIDGES

Illustration	Cartridge	Tip*	Stand.	Twin Point	Net
	560, 101	O	326	....	$.90
	560,133 560,151	O	...	327	1.50

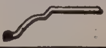
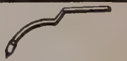
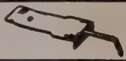
FOR WEBSTER-ELECTRIC CARTRIDGES

Illustration	Cartridge	Tip*	Stand.	Micro.	A-G	Net
	A 1 to 9 and A 1M to 9	O	348	347	351	$ .90
		J	350	349	...	1.50
	F 15, 18, 19	O	361	362	...	90
	F 16	O	390	389	...	.90
	F 20	O	392	391	...	.90

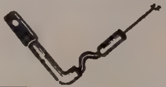
FOR RCA PLAYERS

Illustration	RCA Needle No.	Tip*	Stand.	Micro.	Net
	70915, 72345, 75497, 75046, 38449, 39843, 74068, 75496, 75770, 74818, 75045, 75496,	O	345	315	$ .90
		J	309	...	2.10
		J	...	310	1.20

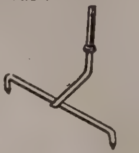
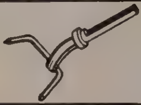
FOR SHURE CARTRIDGES

Illustration	Shure Needle	Tip*	Stand.	Micro.	A-G	Net
	A-61A, A-65MG	J	312	317	352	$1.50
	A-62A	O	311	318	319	.90
	A-52A A-53MG A-56U	O	380	381	382	.90

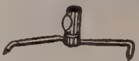
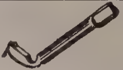
FOR SONOTONE CARTRIDGES

Illustration	Cartridge No.	Tip*	Twin Point	Net
	9987-S	J	385	$2.10

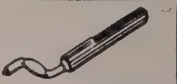
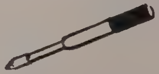
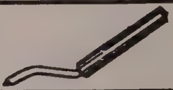
FOR WEBSTER-CHICAGO CARTRIDGES

Illustration	Needle No.	Tip*	Twin Point	Net
	NE-316	O	313	$2.40
	NE-215	O	323	2.40

FOR PHILCO CARTRIDGES

Illustration	Changer No.	Tip*	Stand.	Twin Point	Net
	M-20, M-21, M-22	O	...	325	$1.50
		J	....	353	2.10
	D-10A, M4	J	324	....	1.35

STANDARD NEEDLES FOR SET SCREW CARTRIDGES

Illustration		Tip*	Stand.	Micro.	A-G	Net
	For All Set or Thumb Screw Cartridges	O	2412	....	2712R	$ .60
		J	1912	....	2812R	.90
		J	2612	2612-MG	2912R	1.50

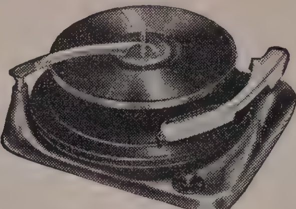
MOST OF THESE NEEDLES AVAILABLE WITH DIAMOND POINTS. WRITE FOR PRICES

*J—Jewel-tipped stylus. O—Osmium-tipped stylus. The variou needle types are indicated as follows: **Standard** or **Stand.**, for 78 RPM records; **Micro.**, for long-play records; **A-G**, or **All-G.**, fo 78, 33⅓ and 45 PRM records; **Twin**, dual-tipped needles fo cartridges playing all three speeds.

Changers and Phono Attachments

Model 1200

Model 936HF


Model 951, 951GE

Model 155

MODEL 1200 4-SPEED RECORD CHANGER

Features new 4-speed control. Automatically plays 33⅓, 45, and 78 rpm records plus the new 16 rpm "Talking Book". Exclusive patented tri-o-matic spindle protects records. Records are lowered, not dropped, to spindle shelf; then dropped on air cushion to turntable. New dual needle ceramic cartridge. Plays twelve 10″, ten 12″, or fourteen 7″ records. Available in attractive metal base pan (Model 1225, Ill.) painted to match 1200 Changer. For 110-120 v., 60 cycle AC. Special voltages available on request. Shipping Weight approximately 11 lbs.

Model 1200 Record Changer—Minimum mounting space 13⁷⁄₁₆″ wide, 12″ deep, 8⅜″ high overall. List Price **$46.50.** Net Each.. **$30²²**

Model 1200GE Record Changer—In addition to 1200 features: constant-speed, 4-pole motor; automatic muting switch; GE 2-needle twin sapphire "turnabout" cartridge. U/L Approved. List Price **$51.50.** Net Each.............. **$33⁴⁷**

Model 1225 Record Changer—Same as Model 1200 but with base pan. (Ill.). List Price **$49.95.** Net Each...... **$32⁶⁶**

Model 1225 GE Record Changer—Same as Model 1200GE, but with base pan. List Price **$54.95.** Net Each. **$35⁹¹**

MODELS 936HF AND 935HF TRI-O-MATIC HI-FI CHANGER ATTACHMENTS

Rigid, resonance-free die cast tone arm. Leads are cloth covered shielded wire. Arm counter balanced. 2 plug-in tone arm heads (less cartridges) included, adapted to GE RPX050, 040, 041, Pickering single and turnover, Clarkstan. One head gold, one burgundy. Uses cartridges of 5 grams needle pressure. Laminated table, weighted and balanced. Extra-heavy flocking. 4-pole motor. V-M 45 spindle, Gentle tri-o-matic action **lowers** records. Automatic for all 3 speeds. Manual if desired. Automatic shut-off. Jam-proof mechanism. Plays 12-10″, 10-12″, 14-7″ records, positive intermix. 6-ft. line cord. U/L Approved. 13½″ x 13¼″ x 9¼″. Shipping Weight, 18 lbs. 3 oz. Mounted on metal pan.

Model 936HF Hi-fi Record Changer—
List Price **$69.95.** Net Each...................... **$45⁴⁷**

Model 935HF Hi-Fi Record Changer. Same as above, less pan and plugs. List **$59.95.** Net Each.................... **$38.97**

MODELS 951 AND 951GE CHANGER ATTACHMENTS

MODEL 951

Automatic set-down, tri-o-matic spindle. Three speeds, automatic shut-off; 2-needle turnover cartridge; one-knob control; jamproof; 12-10″, 10-12″, 14-7″ records; positive intermix of 10″ and 12″ records of same speed. Maroon finish, gold tone arm. 42″ power cord.

Model 951 Changer—13⅛″ x 12″ x 7½″. Shipping Weight, 11 lbs. List Price, **$46.50.** Net Each.......... **$30²²**

MODEL 951GE CHANGER ATTACHMENT

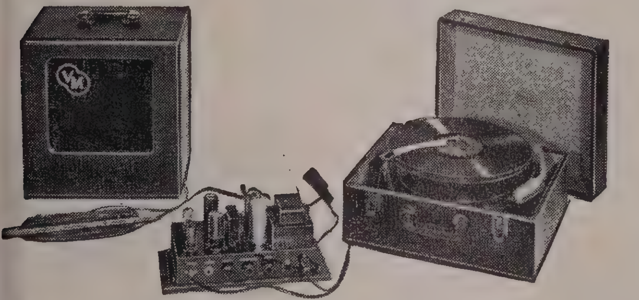
In addition to 951 features: constant-speed, 4-pole motor; automatic muting switch; GE 2-needle twin sapphire "turn-about" cartridge. U/L Approved. 13⅛″ x 12″ x 8⅛″. Shipping Weight, 12½ lbs. List Price, **$51.50.** Net Each................ **$33.47**

MODEL 155 4-SPEED PORTABLE

New four speed control. Plays 33⅓, 45 and 78 rpm records plus the new and popular "Talking Book" 16 rpm speed. Modern smartly styled aluminum die cast tone arm. New patented drive motor assures constant speed at all times with minimum wow. New convenient 2-needle all weather ceramic cartridge. One needle especially designed for 16, 33⅓ and 45 rpm records and one needle for 78 rpm records. Excellent quality 4″ x 6″ heavy duty Alnico V, PM speaker. Plays records through external amplifier and speakers by virtue of the external amplifier jack. Ideal for school and industrial PA uses. Two tubes plus rectifier give ample gain and power for wide-range distortion-free reproduction. Color combination of Charcoal Gray and Dawn Gray with beautiful Gray and Ebony trim accessories. Case covered with scuff-resistant, water-resistant leatherette. Finest quality hardware. Attractive gold metal speaker grille, is especially durable. Power requirements 115-120 v., 60 cycle AC. Dimensions: 14½″ deep x 15″ wide x 8″ high; height lid open 18¾″. Weight 14 lbs., 8 oz. Shipping Weight 18 lbs.

Model 155 Four Speed Portable—List Price **$49.95.** Net **$34⁵⁰**

HIGH FIDELITY PORTABLE P-A PACKAGE



Powerful 8-watt package complete in two matched cases. Ideal for homes, stores, public meetings. Affords ear-pleasing hi-fi sound and easy portability. Includes Model 960 automatic 3-speed record changer and Model 160 "slide-out" amplifier with 10″ Jensen speaker having 25 ft. cord for remote use. Amplifier remains near microphone or changer. System needs but one power outlet, has separate mike and phono input jacks and extra speaker output.

Model 960 Changer in leatherette case. 16⅝″ x 13¾″ x 8⅞″ Shipping Weight, 18½ lbs. List **$64.50.** Net Each...... **$41.92**

Model 160 Amplifier includes 10″ Jensen A1.5 PM speaker, 25-ft. cord; "slide-out" amplifier with all standard controls, 60 to 12,000 cps response. 8 watts output. 13¼″ x 9″ x 14⅞″. Shipping Weight, 22½ lbs. List Price, **$66.50.** Net Each................ **$43.22**

MODEL 920 AUTOMATIC 3-SPEED RECORD CHANGER ATTACHMENT

Add the pleasure of playing your favorite records automatically through the fine speaker system of your older style radio, or your TV set. The handsome V-M 920 is modestly priced, yet its features include Siesta Switch that shuts off everything (even amplifying system and appliance plug-in in base) after the last record. Gently automatically handles records of all three sizes and speeds.
List Price **$39.95.**
Net Each............ **$26⁷⁷**

V-M 45 SPINDLE ACCESSORY

Play up to 14 large center-hole records automatically. Eliminates the bother and cost of inserting center-hole adapters in each record. Fits all V-M 950 and 920 Series record changers. Slips quickly and easily over standard tri-o-matic spindles on Models 950, 950GE, 955, 955GE, 951, 951GE, 956, 956GE, 920, 970, 971, 972, 975, 980, 985, 986, 990, 935HF and 936HG.
List Price........................ **$2.95**
Package of 6—Net........... **$11.52**

MODEL 120-A PORTABLE MANUAL 4-SPEED PHONOGRAPH ATTACHMENT

- **PLAYS AUDIO BOOK RECORDS**
- **WORLD'S SMALLEST PHONOGRAPH**
- **INCLUDES 45 RPM HOLE ADAPTER**

Plays all four speeds, 78, 45, 33⅓ and 16⅔ rpm for audio book records. World's smallest—10¹⁄₁₆″ x 8¼″ x 6¹⁄₁₆″. A fine, clear-toned instrument in almost unbreakable red or green Styron 475. Includes separate 45 center hole adapter. Uni-point needle. Gold tone arm. With this instrument, you can play records of all four speeds through your radio or TV set.
List Price **$16.95.**
Net Each............ **$12⁰⁰**

PRE-CUT MOUNTING BOARDS

Ready to use, fit quickly in any cabinet or custom installation. Made of unfinished 3-ply veneer.

951 Mounting Board—For standard tri-o-matic replacement changers. ⅜″ x 15⅞″ x 15⅞″. List **$2.25.** Net Each..... **$1.46**

953HF Mounting Board—⅜″ x 16¹³⁄₁₆″ x 17⅛″. List **$2.75.** Net Each.................................... **$1.79**

Electro-Voice Hi-Fi Speakers

TRIAXIAL SPEAKERS

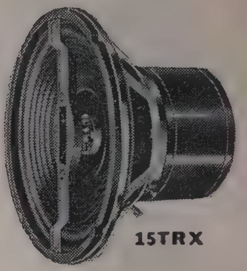
Concentric mounting of all elements, augmented bass response, silky HF reproduction; tailored mid-range. Includes AT37 brilliance control and crossover network.

Model 15TRXB—Integrated 3-way assembly completely wired with HF Control. Overall diam. 15⅛″. Resonance 38-48 cps. 20 watts. Magnet weight 1 lb. 2 oz. Response 30-15,000 cps in REGENCY. Mechanical crossover 2000 cps; electrical crossover 3500 cps. Depth behind mounting panel 7⅝″. Impedance 16 ohms. Sens. rtg. 47 db. Shipping Weight 17 lbs. X36 not required. Net Each........**$78.00**

Model 15TRX—15⅛″ diameter overall. Resonance 35-45 cps. 30 watts. Magnet weight, 5¾ lbs. Response, 30-15,000 cps in recommended REGENCY enclosure. Depth behind panel, 9⅛″. Mechanical crossover 2000 cps, electrical crossover, 3500 cps. Impedance, 16 ohms. Sens. rtg., 51 db. Shipping Weight 48 lbs. With X36 and AT37. Net Each.............**$135.00**

Model 12TRXB—Integrated 3-way assembly completely wired with HF control. Overall diam. 12¼″. Resonance 45 cps. 20 watts. Magnet wt., 1 lb., 2 oz. Response, 35-15,000 cps in ARISTOCRAT. Mech. crossover, 2000 cps; built-in electrical crossover, 3500 cps. Depth B. P., 6 1/16″. Imp., 16 ohms. Shpg. Wt. 14 lbs. X36 is not required. Net Each......**$59.70**

Model 12TRX—Overall diameter 12¼″. Resonance, 40 cps. 25 watts. Magnet weight, 3½ lbs. Response, 30-15,000 cps in recommended ARISTOCRAFT enclosure. Mechanical crossover, 2500 cps; electrical crossover, 3500 cps. Depth behind mounting panel, 8″. Impedance, 16 ohms. Sens. rtg. 49 db. Shipping Weight 32 lbs. With X36 and AT37. Net Ea..**$114.00**


15TRX

RADAX COAXIAL SPEAKERS

The EV Radax Principle is an economical, super-efficient method of using two coaxial cones, both operating from a single voice coil, to divide the audible spectrum for clean, sparkling reproduction.

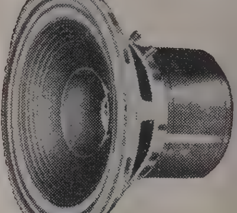
Model SP8B Radax Super-Eight—8″ speaker. Resonance, 55-65 cps. 20 watts. Response 35-13,000 cps. 16 ohms impedance. Sens. rtg. 45 db. Crossover, 6000 cps. 1 lb. Alnico V magnet 8⅜″ diam., 7″ baffle opening. 4⅜″ depth behind panel. Shpg. Wt. 9 lbs. Net Each......**$28.50**

Model SP12B Radax Twelve—12″ speaker. Resonance, 40-50 cps. 20 watts. Response, 30-13,000 cps. 16 ohms impedance. Sens. rtg., 46 db. Crossover, 4500 cps. 1 lb. Alnico V magnet. 12¼″ diameter. 11″ baffle opening. 6″ depth behind panel. Shpg. Wt. 12 lbs. Net.**$29.70**

Model SP12 Radax Super-Twelve—12″ speaker. Resonance, 35-45 cps. 25 watts. Response, 30-13,000 cps. 16 ohms impedance. Sens. rtg., 48 db. Crossover, 4000 cps. 3 lb. Alnico V magnet. 12¼″ diameter. 11″ baffle opening. 7½″ depth behind panel. Shipping Weight 25 lbs. Net Each..........**$57.00**

Model SP15B Radax Fifteen—15″ speaker. Resonance 38 cps. 15-20 watts. Response 30-13,000 cps. 16 ohms impedance. Sens. rtg 47 db. Cros over 3500 cps. 1 lb. Alnico V Magnet. 15⅛″ diam., 13½″ baffle opening. 7⅝″ depth behind mtg. panel. Shipping Weight 15 lbs. Net Each...........................**$39.00**

Model SP15 Radax Super-Fifteen—15″ speaker. Resonance, 40 cps. 30 watts. Response 30-13,000 cps. 16 ohms impedance. Sens. rtg., 50 db. Crossover, 3000 cps. 5¼ lb. Alnico V magnet. 15⅛″ diameter, 13½″ baffle opening 9″ depth behind panel. Shipping Weight 41 lbs Net Each...........................**$78.00**


SP15

LOW-FREQUENCY DRIVERS

Model 12BW—12″ LF driver. Resonance, 40-50 cps. Used in EV 108 system. 1 lb. Alnico V magnet. 20 watts. Impedance, 16 ohms. Sens. rtg., 45 db. 12¼″ diam., 11″ opening, 6″ depth behind panel. Shipping Weight 12 lbs. Net Each...**$29.70**

Model 12W—12″ LF driver. Resonance, 35-45 cps. 3 lb. Alnico V magnet, 25 watts. 16 ohms impedance. Sens. rtg. 48 db. 12¼″ diameter, 11″ max. baffle opening, 7½″ depth behind panel. Shipping Weight 25 lbs. Net **$57.00**

Model 12WK—Above, but 3.2 ohms DC (for Klipsch "K" baffles). 16 ohms. Net..**$57.00**

Model 15BW—15″ LF driver. Resonance, 38 cps. 1 lb. Alnico V magnet. 20 watts. 16 ohms impedance. Sens. rtg. 47 db. 15⅛″ diam.. 13½″ max. baffle opening. 7⅝″ depth behind mtg. panel. Shpg. Wt. 15 lbs. Net..**$39.00**

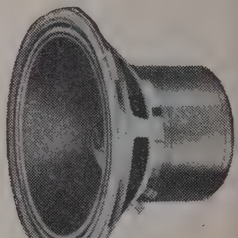
Model 15BWK—Above, but 3.2 ohms d.c., (for Klipsch "K" baffles). 16 ohms. Net Each.........................**$39.00**

Model 15W—15″ LF driver. Resonance, 30 cps. 5¼ lb. Alnico V magnet. 30 watts. 16 ohms impedance. Sens. rtg., 50 db. 15⅛″ diam., 13½″ max. opening, 9″ behind panel. Shipping Weight 41 lbs. Net Each..**$78.00**

Model 15WK—Above, but 3.2 ohms DC, 29 cps resonance (for Klipsch "K"). Net **$78.00**

Model 18W—18″ LF driver, 30 watts. Resonance, 25-35 cps. 16 ohms impedance. Sens. rtg., 53 db. 18¼″ diam., 16½″ max, opening, 10″ behind panel. 5¼ lb. Alnico V magnet. Shipping Weight 43 lbs. Net Each..**$90.00**

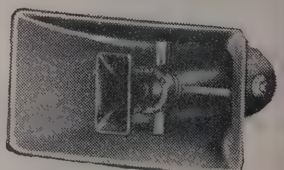
Model 18WK—Above, but 3.2 ohms DC, 20-30 cps resonance (for Klipsch "K"). Net **$90.00**


15W

COAXIAL MID-RANGE DRIVER

Model 848HF—Coaxial compression type mid-bass and treble assembly, 25 watts from 300-10,000 cps. Outer fibreglass horn fed from back of 2″ voice coil for fine acoustical properties; smaller metal horn works from front of same diaphragm through acoustical 1000 cps crossover. ½ lb. magnet in close tolerance gap of high flux density; impedance, 16 ohms. Sens. rtg., 51 db. Size: 20½″ wide, 10½″ high, 20″ deep over all. Mounting hardware supplied. Shipping Weight, 15 lbs. Net Each..**$48.00**

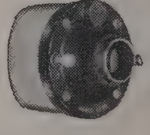
Model 847HF—Similar in design to 848HF but 12 watts from 300-10,000 cps; 1500 cps acoustical crossover. 1½″ voice coil; sens. rtg., 51 db. Size 11¾″ wide, 7¾″ high, 10″ deep. Shipping Weight 7 lbs. Net Each...........**$29.70**


848HF

HIGH-FREQUENCY DRIVERS

Model T10A—HF driver, 20 watts. Response 400-13,000 cps. Impedance, 16 ohms. Sens. rtg., 51 db. ½ lb. Alnico V magnet. 3¾″ diameter, 3¼″ deep. Throat diameter, ⅞″. Shipping Weight 4 lbs. Net Each...........**$40.50**

Model T25A—HF driver, 20-30 watts. Response, 400-13,000 cps. Impedance, 16 ohms. Sens. rtg., 53 db. 1 lb. Alnico V magnet. 3¾″ diam., 4 1/16″ deep. Throat diam., ⅞″. Shipping Weight 6 lbs. Net Each............**$57.00**


T25A

SUPER-SONAX VHF DRIVERS

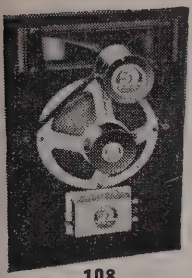
Model T35—At least one more octave of silky highs is afforded through use of T35 for high efficiency systems. Uniform response, 3500 cps to beyond audible range. Wide dispersion of 180°. Impedance, 16 ohms. Diffraction horn cutoff 1500 cps. High sens. rtg., 56 db, requires use of AT37 level control for most systems; X36 crossover also required. Horn 4½″ long, 1¼″ wide; pot size 2 5/16″ diameter, 3¼″ depth overall. Shpg. Wt. 3 lbs. Net Each.**$33.00**

Model T35B—Same as T35 but for systems with speakers using smaller magnet size. Sens. rtg., 53 db. Pot size, 1¾″ diameter, 3″ deep overall. Shpg. Wt. 3 lbs. Net Each..**$21.00**

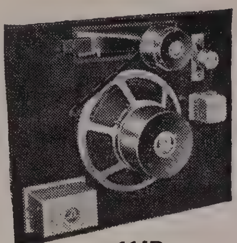
T35

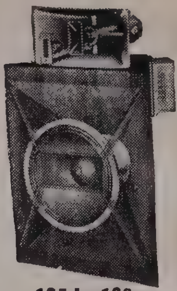
Note: Sensitivity ratings are RETMA standard.

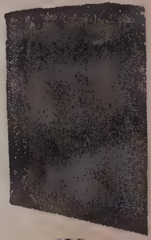
Electro-Voice Systems, Components


108

111


114B


105 in 106


106

SEPARATE MULTI-WAY SYSTEMS

Model 108. As used in Aristocrat I. Separate 2-way system, 800-cps crossover. Consists of 12BW LF driver, T10A HF driver with 8HD horn, X825 crossover, AT37 level control, 8614, cable harness, baffle board. Can be used in custom installations. Size 27″ h., 18″ w., 12½″ d. Shpg. Wt. 39 lbs. Net Each.........**$110.40**

Model 108A. As used in Aristocrat IA. Identical to 108 except C8614 harness with addition of T35B VHF driver, X37, AT37. Shpg. Wt. 50 lbs. Net Each.......................**$143.40**

Model 111. As used in Aristocrat II. Deluxe separate 2-way system, 800-cps crossover. Consists of 12W LF driver, T25A HF driver with 8HD horn, X8 crossover, AT37 level control A8614 cable harness, baffle board. Size 27″ h., 18″ w., 12½″ d. Shpg. Wt. 55 lbs. Net Each..........................**$166.20**

Model 111A. As used in Aristocrat III. Identical to 111 except B614 harness with addition of T35 VHF driver, X36, AT37. Shpg. Wt. 68 lbs. Net Each.......................**$211.20**

Model 116. As used in Regency I. Separate 2-way system, 800-cps crossover. Consists of 15BW LF driver, T10A HF driver with 8HD horn, X825 crossover, AT37 level control, mounting kit, cable harness, baffle board. Size 26⅝″ h., 32½″ w., 12½″ d. Shpg. Wt. 43 lbs. Net Each..............................**$119.70**

Model 116A. As used in Regency IA. Identical to 116 except with addition of T35B VHF driver, X36, AT37. Net Each.**$152.70**

Model 114A. As used in Regency II. Deluxe separate 2-way system, 800-cps crossover. Consists of 15W LF driver, T25A HF driver with 8HD horn, X8 crossover, AT37 level control, A8588 cable harness, baffle board. Size 26⅝″ h., 32⅜″ w., 13½″ d. Shpg. Wt. 95 lbs. Net Each......................**$187.20**

Model 114B. As used in Regency III. Identical to 114A except 8588 harness with addition of T35 VHF driver, X36, AT37. Shpg. Wt. 107 lbs. Net Each.......................**$232.20**

Model 117 Package. Driver components only, as used in Centurion. Includes complete instructions for constructing exclusive Electro-Voice "W" single-path bass section. Consists of 15BWK LF driver, 847HF coaxial mid-range assembly, T35B VHF driver. X336 crossover network, two AT37 level controls, cable harness. Shpg. Wt. 50 lbs. Net Each......................**$139.20**

Model 105 Package. Driver components only, as used in Georgian and Centurion. Includes complete instructions for constructing "K" bass section and outer furniture housing for Georgian. Consists of 15WK LF driver, 848HF coaxial mid-range assembly, T35 VHF driver, X336 crossover network, two AT37 level controls, cable harness. Shpg. Wt. 97 lbs. Net Each.........**$208.50**

Model 106. Klipsch "K" bass horn only as used in Georgian. For 15WK LF driver; painted flat matte black. Size 38½″ h., 32¼″ w., 22¾″ d. Shpg. Wt. 88 lbs. Net Each................**$90.00**

Model 103C Package. Driver components only, as used in Patrician. Includes complete instructions for constructing "K" bass section. Consists of 18WK VLF driver, two 828HF drivers with two A8419 LF horn sections, T25A HF driver with 6HD horn, T35 VHF driver, X2635 crossover network, three AT37 level controls, cable harness. Shpg. Wt. 106 lbs. Net Each.**$348.00**

Model 115. Klipsch "K" basic VLF driver horn only, as used in Patrician. For 18WK VLF driver; includes mid-bass horn bell for LF horn sections. Painted flat matte black. Size 57¾″ h., 37½″ w., 27¼″ d. Shpg. Wt. 150 lbs. Net Each.............**$180.00**

CROSSOVERS

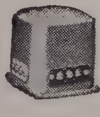
All EV crossovers use high-Q air core coils. Low insertion loss, phase rotation 270° (135° in X825), attenuation 12 db per octave in ½ section, 6 db per octave in ¼ section crossovers.

Model X825 Crossover as used in EV 108 system. ¼ section. Crossover point, 800 cps. Impedances 16 ohms in and out. Size 3 7/16″ x 3⅝″ x 4 7/16″. Shpg. Wt. 3 lbs. Net Each........**$18.00**

Model X8 Crossover. ½ section. Crossover point, 800 cps. Impedances 16 ohms in and out. Size 4⅝″ x 8¼″ x 5½″. Shpg. Wt. 4 lbs. Net Each..............................**$30.00**

Model X6 Crossover. ½ section. Crossover point, 600 cps. Impedances 16 ohms in and out. Non-metallic container measures 4 11/16″ x 9¼″ x 6″. Shpg. Wt. 7 lbs. Net Each.........**$36.00**

Model X336 Crossover designed for Georgian and Centurion systems. Crossover points at 300 and 3500 cps. Impedances 16 ohms in and out; non-metallic container. Size 4 11/16″ x 9¼″ x 6″. Shpg. Wt. 9 lbs. Net Each.......................**$39.00**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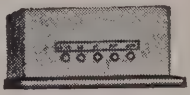

X336

X2635

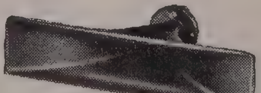
Model X36 Crossover. Recommended for use with T35 and T35B. ½ section. Crossover point, 3500 cps. Impedances 16 ohms in and out. Metal case. Size 3 1/16″ x 3⅝″ x 4 7/16″. Shpg. Wt. 2 lbs. Net Each....................................**$8.40**

Model X2635 4-Way Crossover. ¼ and ½ sections. Crossover points, 200, 600, and 3500 cps. Impedances 16 ohms in and out. Non-metallic container; size 4¾″ x 10″ x 8″. Shpg. Wt. 11 lbs. Net Each..**$72.00**

DIFFRACTION HORNS

Model 8HD Diffraction Horn. New principle provides perfect dispersion of high frequencies through a 120° solid angle. Actual cutoff 600 cps, crossover 800 cps, eliminating cutoff disturbances. Made of fiberglass. For T10A and T25A drivers. 3⅜″ h., 14¼″ w., 7½″ d. Mounting hardware included. Shpg. Wt. 4 lbs. Net Each..**$16.20**

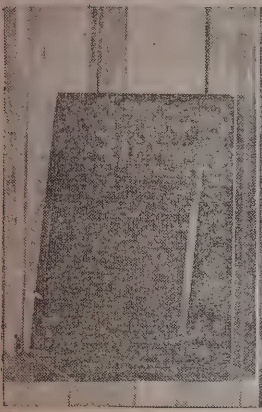
Model 6HD Diffraction Horn. For systems utilizing 600 cps crossover. Horn designed with actual 400 cps cutoff; prevents response disturbances associated with operation too near actual cutoff point. Diffraction principle effects 120° dispersion. 3½″ h., 19¾″ w., 12″ d. For T10A and T25A drivers. Mounting hardware included. Shpg. Wt. 6 lbs. Net Each.................**$21.00**


8HD

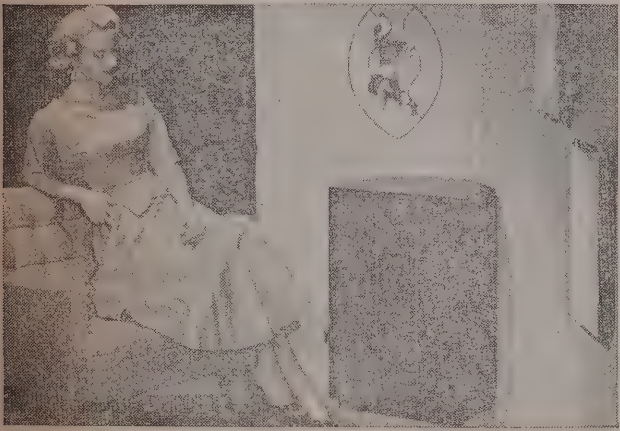
AT37

Model AT37 Level Control. 16 ohm "L" pad. For use with T35, T35B, T10A, T25A, 848HF drivers and similar applications. Adjusts output level to individual taste. Mahogany color. Net Each,.......................................**$3.60**

Electro-Voice Enclosures and Systems


BARONET

SKYLARK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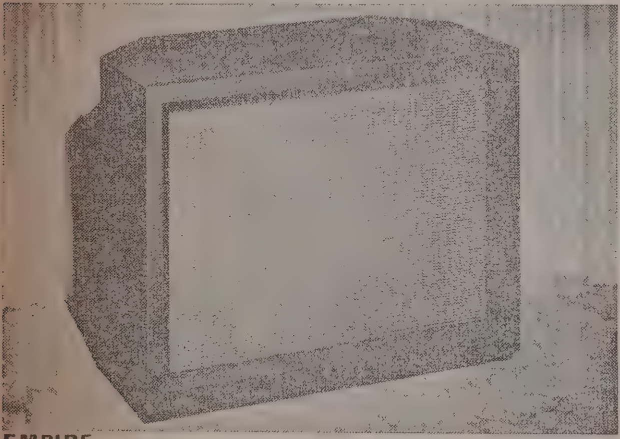

EMPIRE

REGENCY

The Baronet. For EV or other 8″ speaker. Response down to 35 cps. Conservative styling with graceful sloping front. Hand-rubbed hardwood veneers. Can be used anywhere. Size 22⅞″ h., 14½″ w., 13¾″ d. Shipping Weight 24 lbs.
Mahogany Cabinet Only—Net Each.................**$39.00**
Blonde Korina Cabinet Only—Net Each............**$41.40**

The Skylark. 3-way speaker system in attractive functional design for bookcase or table use, vented with two tapered low-frequency ports to load properly SP8C 8″ coaxial driver for excellent bass and midrange. Special crossover feeds T35B VHF driver from 3500 cps to beyond range of audibility. Brilliance control. Impedance 16 ohms; sens. rtg. 44 db. Size 14″ h., 33″ w., 10¾″ d. 11¾″ high with feet removed. Shipping Weight 32 lbs.
Mahogany Complete—Net Each....................**$89.70**
Blonde Korina Complete—Net Each...............**$92.70**

The Aristocrat. For EV or any full-range 12″ speaker or EV separate 2 or 3-way systems, without modifications. Unusually smooth reproduction down to 35 cps. Selected Mahogany veneers. Brushed brass grille. Size 29⅝″ h., 19″ w., 16⁵⁄₁₆″ d. Shipping Weight 38 lbs. Mahogany Cabinet Only—Net Each....**$66.00**
Blonde Korina Cabinet Only—Net Each............**$72.00**

Aristocrat I. Includes EV Model 108 2-way system completely wired and installed in Aristocrat enclosure. Shpg. Wt. 56 lbs.
Mahogany Complete—Net Each...................**$179.40**
Blonde Korina Complete—Net Each..............**$185.40**

Aristocrat 1A. Includes Model 108A 3-way system. Completely wired and installed in Aristocrat enclosure. Shpg. Wt. 59 lbs.
Mahogany Complete—Net Each...................**$212.40**
Blonde Korina Complete—Net Each..............**$218.40**

Aristocrat II. Includes Model 111 deluxe 2-way system completely wired and installed in Aristocrat enclosure. Shpg. Wt. 70 lbs.
Mahogany Complete—Net Each...................**$235.20**
Blonde Korina Complete—Net Each..............**$241.20**

Aristocrat III. Includes EV Model 111A 3-way system completely wired and installed in Aristocrat enclosure. Shpg. Wt. 74 lbs.
Mahogany Complete—Net Each...................**$280.20**
Blonde Korina Complete—Net Each..............**$286.20**

The Empire. For EV or other 15″ speakers and EV separate two or three-way systems, without modifications. An economical enclosure of pleasing proportions and high style. Takes all drivers and systems used in famous Regency. Beautiful hardwood veneers. Size 29⅝″ h., 32″ w., 16″ d. Shipping Weight 45 lbs.
Mahogany Cabinet Only—Net Each.................**$79.00**
Blonde Korina Cabinet Only—Net Each............**$85.00**

Empire I. Includes Model 116 separate 2-way system. Completely wired and installed in Empire enclosure. Shipping Wt. 69 lbs.
Mahogany Complete—Net Each...................**$198.70**
Blonde Korina Complete—Net Each..............**$204.70**

Empire IA. Includes Model 116A separate 3-way system. Completely wired and installed in Empire enclosure. Shpg. Wt. 74 lbs.
Mahogany Complete—Net Each...................**$231.40**
Blonde Korina Complete—Net Each..............**$237.40**

Empire II. Includes Model 114A separate 2-way system. Completely wired and installed in Empire enclosure. Shpg. Wt. 87 lbs.
Mahogany Complete—Net Each...................**$266.20**
Blonde Korina Complete—Net Each..............**$272.20**

Empire III. Includes Model 114B separate 3-way system. Completely wired and installed in Empire enclosure. Shpg. Wt. 92 lbs.
Mahogany Complete—Net Each...................**$311.20**
Blonde Korina Complete—Net Each..............**$317.20**

The Regency. For EV or other 15″ speaker, or EV 2 or 3-way systems, without modifications. Has integral "built-in corner". Can be used in corner or against flat wall. Response down to 30 cps. Selected mahogany veneers. Grille in brushed brass finish. Size 29⅝″ h., 33½″ w., 19″ d. Shipping Weight 88 lbs.
Mahogany Cabinet Only—Net Each...............**$120.00**
Blonde Korina Cabinet Only—Net Each..........**$129.00**

Regency I. Includes Model 116 separate 2-way system. Completely wired and installed in Regency enclosure. Shipping Wt. 112 lbs.
Mahogany Complete—Net Each...................**$242.70**
Blonde Korina Complete—Net Each..............**$251.70**

Regency IA. Includes Model 116A separate 3-way system. Completely wired and installed in Regency enclosure. Shpg. Wt. 117 lbs.
Mahogany Complete—Net Each...................**$275.70**
Blonde Korina Complete—Net Each..............**$284.70**

Regency II. Includes Model 114A separate 2-way system. Completely wired and installed in Regency enclosure. Shpg. Wt. 130 lbs.
Mahogany Complete—Net Each...................**$310.20**
Blonde Korina Complete—Net Each..............**$319.20**

Regency III. Includes EV 114B 3-way system completely wired and installed in Regency enclosure. Shipping Weight 135 lbs.
Mahogany Complete—Net Each...................**$355.20**
Blonde Korina Complete—Net Each..............**$364.20**

Electro-Voice Enclosures and Systems

NEW CONCEPTS IN COMPACT CORNER CABINETS PROVIDE EXTENDED BASS RANGE

Utilizing the Klipsch principle, EV design extends the lows, enhances the highs. Employs the room walls as an extension of the exponential horn air load—assures one full octave of added bass with unprecedented efficiency. Provides direct front radiation of higher frequencies; smoother, cleaner overall musical balance. Increases power handling capacity of any speaker.

The Centurion. Attractively styled enclosure for Model 117 or Model 105 4-way systems. Exclusive "W" single path indirect radiator is designed for 15BWK or 15WK LF drivers, with response below 35 cps. Size 40″ h., 30″ w., 22½″ d. Shipping Weight 54 lbs.

Mahogany Cabinet Only—Net Each................**$157.80**
Blonde Korina Cabinet Only—Net Each............**$166.80**

The Centurion IV. Complete 4-way system incorporating all design features of the magnificent Electro-Voice Georgian, but on a smaller scale. Uses exclusive EV "W" single path indirect radiator folded horn with 15BWK LF driver from 30-300 cps. X336 crossover feeds 847HF coaxial mid-bass and treble assembly with acoustical crossover at 1500 cps. 3500-cps section of X336 feeds T35B VHF driver to beyond audibility. Two AT37 level controls for presence and brilliance. Sensitivity rating 48. Power handling 20 watts program material, 40 watts peak. Size 40″ h., 30″ w., 22½″ d. Shipping Weight 54 lbs.

Mahogany Complete—Net Each...................**$297.00**
Blonde Korina Complete—Net Each...............**$306.00**

The Senior Centurion IV. Similar to the Centurion IV in appearance, size and construction, but includes highly efficient Model 105 components, as used in the EV Georgian. Sensitivity rating 51 db. Power handling 35 watts program material, 70 watts peak. Shipping Weight 132 lbs.

Mahogany Complete—Net Each...................**$375.00**
Blonde Korina Complete—Net Each...............**$384.00**

The Georgian. A complete 4-way system of exceptional cleanliness in handsomely styled cabinet of medium proportions. Uses Klipsch "K" indirect radiator folded corner horn with 15WK LF driver from 30-300 cps. X336 crossover feeds 848HF coaxial mid-bass and treble assembly with acoustic crossover at 1000 cps. 3500 cps section of X336 feeds T35 VHF driver to beyond audible range. Two AT37 level controls adjust presence and brilliance to balance room acoustics. Sens. Rtg. 51 db. Power Handling 35 watts program material, 70 watts peak. Size 53″ h., 34″ w., 26″ d. Shipping Weight 290 lbs.

Mahogany Complete—Net Each...................**$495.00**
Blonde Korina Complete—Net Each...............**$515.00**

Model 107. Georgian outer decorative furniture housing only. Shipping Weight 147 lbs.
Mahogany without reproducer components. Net Each **$199.80**
Blonde Korina without reproducer components—Net.**$219.80**

The Patrician IV. Complete 4-way speaker system in custom-crafted corner cabinet for very finest in reproduction. Divides audio spectrum between four drivers, each specifically designed for distortion-free fidelity. Includes EV 18WK 18″ LF driver; two EV 828HF drivers for mid-bass, each with an A8419 LF phenolic horn section, T25A treble driver with 6HD horn, T35 super tweeter, three AT37 level controls, X2635 4-way crossover. Crossover frequencies 200, 600 and 3500 cps. Entire system wired and installed in elegant cabinet of selected woods and beautiful inlays. Heirloom finish in exquisite hand-rubbed mahogany or Korina. Size 62″ h., 39″ w., 29″ d. Shipping Weight 390 lbs.

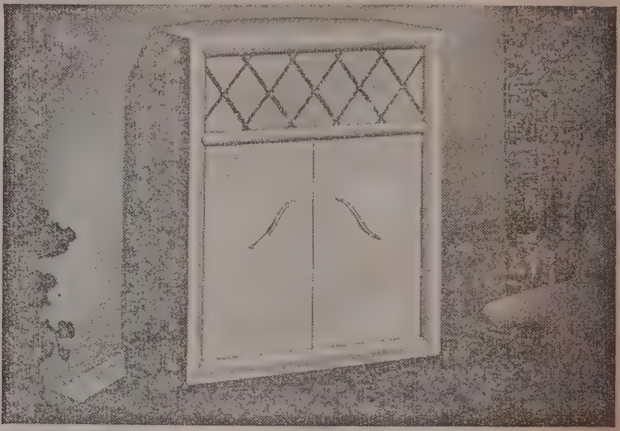
Mahogany or Blonde—Net Each...................**$772.50**

The Peerage Equipment Console. A beautiful and practical console designed to house any combination of the popularly known tuners, amplifiers and record changers. Simple, graceful styling harmonizes with EV speaker enclosures and lends itself to any contemporary setting. Supplied with a list of tuner, amplifier and changer combinations which can be installed. Size 29⅝″ h., 20½″ w., 18¾″ d. Shipping Weight 61 lbs.

Mahogany Cabinet Only—Net Each.................**$96.00**
Blonde Korina Cabinet Only—Net Each............**$102.00**

The Piccolino. Compact housing for T35 or T35B driver, X36 crossover, and AT37 level control. An attractive addition to any Hi-Fi installation; provides silky, extended high frequencies for better listening. Lumite grille cloth. Size 6⅜″ h., 8″ w., 5⅝″ d. Shipping Weight 6 lbs.

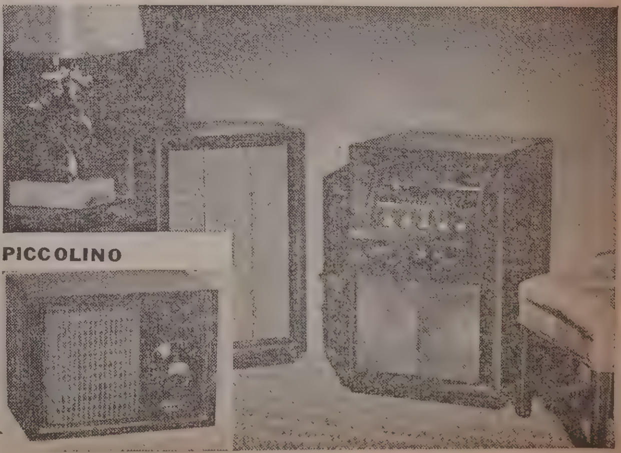
Mahogany or Blonde Korina Cabinet Only—Net Each...**$9.00**


CENTURION

GEORGIAN

PATRICIAN

PEERAGE

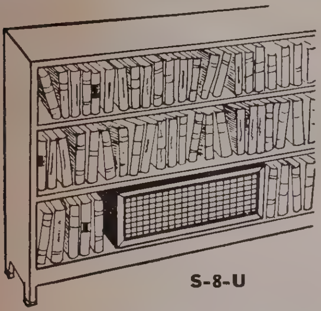

PICCOLINO

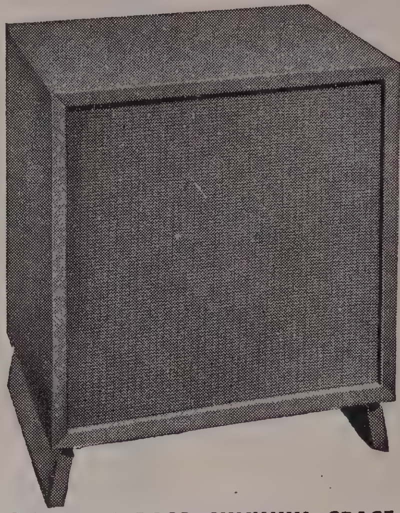
Speakers and Enclosures

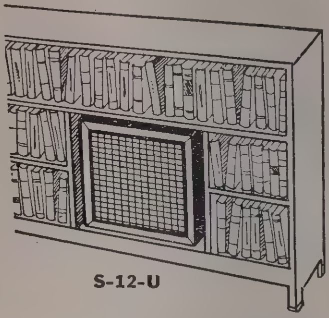
R-J SPEAKER ENCLOSURES AND SPEAKERS

The R-J Enclosure is equally impressive in its unobstructed direct radiation of high frequencies. Excellent acoustic loading affords best reproduction of transients. Fine furniture construction used throughout. Expertly built of genuine Mahogany or Korina veneers, with hand-rubbed dark or blond finish. Special models available unfinished to fit shelves of bookcases and similar uses.

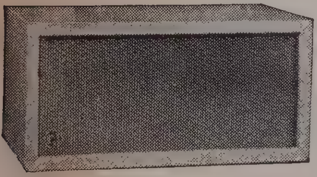
These enclosures establish a new trend in audio design with excellent performance from any speaker in a cabinet only slightly larger than the speaker itself. The R-J Enclosure will permit the user to realize the full potential of any speaker with which it is used. It offers clean, smooth bass fundamentals, without peaks, down to low organ pedal notes. Resonances eliminated.


S-8-U


MAXIMUM BASS MINIMUM SPACE


S-12-U

R-J WHARFEDALE COMPLETE SPEAKER COMBINATION



A high fidelity 8-inch speaker offered in choice of Blond Korina (illustrated) or dark Mahogany with distinctive gold-color expanded aluminum grille. Grille is acoustically perfect since it does not impede the sound in any way. 8-in. Wharfdale Speaker is specially designed for the unit; has aluminum voice coil to reinforce the highs.

Besides the aluminum voice coil this speaker incorporates a cast chassis and a felt "buffer" between the speaker cone and frame. **Flux Density:** 10,000 lines. **Impedance:** 10 ohms. **Total Flux:** 39,500 lines with ample power handling capacity. **Frequency Response:** 50-16,000 cycles. **Size** is 11″ x 10″ x 23½″.

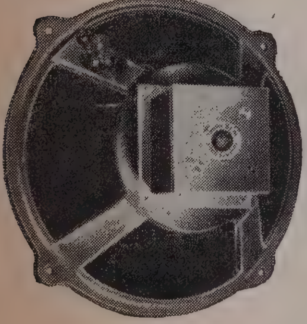
R-J Model S-8-MC 8-in. Speaker—Mahogany. Net... $\$54^{50}$

R-J Model S-8-BC 8-in. Speaker—Blond Korina. Net. **$57.50**

ENCLOSURES FOR 8 TO 15-INCH SPEAKERS

Model	Description	Net Each
S-8-U	For 8″ speaker. Single-shelf model to fit in bookcase. 11″ high, 23½″ long, 10″ deep. Finish sanded, unpainted.	$24.50
S-12-U	For 12″ speaker. Double-shelf model to fit in bookcase. 24″ high, 21″ long, 10″ deep. Finish sanded, unpainted.	29.50
F-12-M	For 12″ speaker. Floor model. 20″ high, 20″ long, 16″ deep. Hand rubbed, Mahogany finish.	49.95
F-12-U	Same as F-12-M, sanded, unpainted	43.35
F-15-M	For 15″ speaker. Floor model. 20″ high, 20″ long, 16″ deep. Hand rubbed, Mahogany finish.	49.95
F-12-B	For 12″ speaker. Floor model. 20″ high, 20″ long, 16″ deep. Hand rubbed, Blonde Korina finish.	54.50
F-15-B	For 15″ speaker. Floor model. 20″ high, 20″ long, 16″ deep. Hand rubbed, Blonde Korina finish.	54.50
F-15-U	Same as F-15-M, sanded, unpainted	43.35

WHARFEDALE SPEAKERS AND DRIVERS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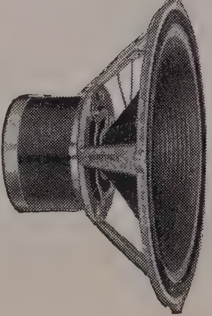
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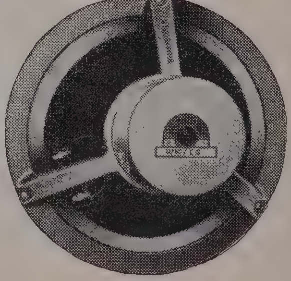

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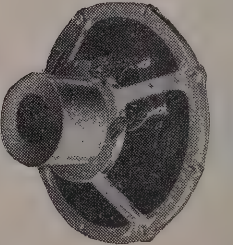
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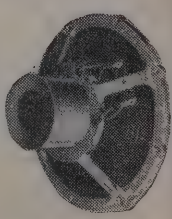

E

Fig. A. W15/CS/AL LOW FREQUENCY DRIVER. Low transient distortion and smooth response. Gives clean bass to 25/35 cps. **Impedance:** 15 ohms. **Power:** 20 watts. **Cone Resonance:** 30/35 cps. **Flux Density:** 13,500 lines. Weight 17 lbs.

W15/CS/AL Low Frequency Driver—Net Each............ $\$76^{15}$

Fig. B. SUPER 12/CS/AL SPEAKER. Remarkably level response between 30 and 18,000 cycles. Transient distortion and "boom" eliminated. **Impedance:** 15 ohms. **Power:** 12 watts. **Cone Resonance:** 34 to 45 cps. **Flux Density:** 17,000 lines. Weight, 18¼ lbs.

Super 12/CS/AL Speaker—Net $\$76^{15}$

Fig. B. W12/CS LOW FREQUENCY DRIVER. Gives clean bass down to 25/35 cps. Low transient distortion and smooth response made possible by cloth suspension. **Impedance:** 15 ohms. **Power:** 10 watts. **Cone Resonance:** 40/50 cps. **Flux Density:** 13,000 lines. Weight 12 lbs.

W12/CS Low Frequency Driver—Net Each............ $\$42^{75}$

Fig. C. W10/CSB SPEAKER. Designed for average sized room where little power is required to give excellent quality. **Response:** 30 to 18,000 cps. **Impedance:** 15 ohms. **Power:** 8 watts. **Cone Resonance:** 50/60 cps. **Flux Density:** 14,000 lines. Weight 9 lbs.

W10/CSB Speaker—Net Each. $\$40^{00}$

Fig. D. SUPER 8/CS/AL SPEAKER. Suitable for bass reflex cabinets, or for use as a treble unit in a 2-way speaker system. Cloth suspension cone has bakelized apex for wide response. **Response:** 50/15,000 cps. **Impedance:** 15 ohms. **Power:** 5 watts. **Cone Resonance:** 60/65 cps. **Flux Density:** 13,000 lines.

Super 8/CS/AL Speaker—Net. $\$21^{50}$

Fig. E. SUPER 5 TREBLE SPEAKER.

Features small, bakelized cone for wide diffusion and high-flux magnet for H-F reproduction. **Range:** Effective at 3,000 to 20,000 cps. **Voice Coil:** Aluminum 10 ohms. **Flux Density:** 13,000 lines. Die cast chassis. Suitable for use with a 15 ohm bass unit and a 3,000 cycle crossover network, or may be used with an existing 2-speaker system with 1,000 cycle crossover network.

Super 5 Treble Speaker—Net Each...................... $\$21^{50}$

8″ BRONZE SPEAKER (Not Illus.). Quality low-priced speaker suitable for acoustic chambers. **Impedance:** 15 ohms. **Power:** 5 watts. **Flux Density:** 10,000 lines. Weight 3¼ lbs.

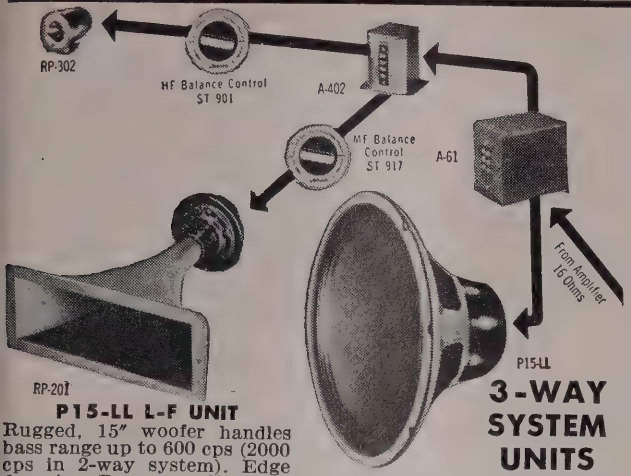
8″ Bronze Speaker—Net Each. $\$15^{05}$

1000 CYCLE CROSSOVER. Used to divide bass and treble between 2 speakers at low impedance—eliminates distortion of the treble by modulation from the bass. **Impedance:** 15 ohms. **Attenuation:** 6 to 9 db per octave. **Maximum Input:** 30 watts. **Crossover:** 1,000 cps. **Size:** 8″ x 5″ x 4″. Weight 3¼ lbs.

1000 Cycle Crossover—Net Ea. $\$15^{40}$

3000 Cycle Crossover. For use with 5″ tweeter. Net Each................**$14.10**

Jensen High Fidelity Loudspeakers



3-WAY SYSTEM UNITS

P15-LL L-F UNIT

Rugged, 15″ woofer handles bass range up to 600 cps (2000 cps in 2-way system). Edge damping. Resonance 37 cycles. Power rating 35 watts. Impedance 16 ohms. Shipping Weight 18 lbs. ST-904.
Net Each.......... $56.80

RP-201 H-F UNIT

Reproduces the range from 600 to 4000 cycles as the mid-channel in a 3-way system. Driver unit loaded by cast aluminum Hypex horn. Coverage angle, 115° Impedance, 16 ohms. Power rating with A-61 network, 35 watts speech and music signal input to system. Shipping Weight, 8 lbs. ST-897.
Net Each.......... $42.60

RP-302 ULTRA H-F UNIT

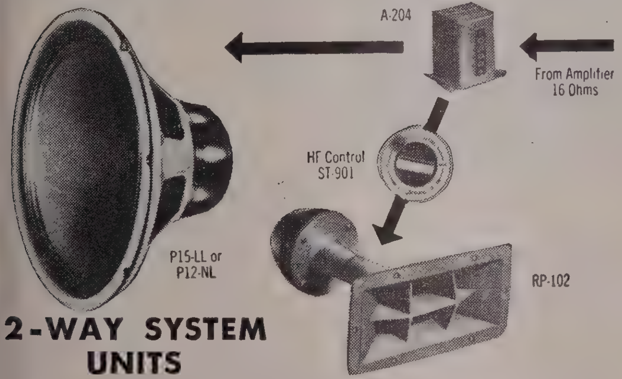
Covers the top of the range from 4000 cycles to the highest audible frequencies with unexcelled smoothness and freedom from distortion. Coverage angle, 120°. Impedance, 16 ohms. Power rating with A-402 network, 35 watts speech and music signal input to system. Mounts in 1 11/16″ hole in baffle or on bracket. Satin finish. Shipping Weight, 3 lbs. ST-899.
Net Each.......... $33.60

A-402 CROSSOVER NETWORK

Two-channel type; high pass transmits everything above 4000 cycles, low-pass everything below this frequency. 180° constant-resistance type, 4⅜″ high, 3½″ wide, 3¼″ deep. Shipping Weight, 3 lbs. ST-898. Net Each.......... $8.20

A-61 600 CYCLE NETWORK

Sends frequencies above 600 cycles to A-402 for further division; below 600 cycles to the P15-LL unit. Two-channel, 180° constant-resistance type, with 12 db./octave attenuation outside pass band. 5¼″ high, 7″ wide, 4⅝″ deep. Shipping Weight, 5¼ lbs. ST-896. Net Each.......... $17.50



2-WAY SYSTEM UNITS

P12-NL LOW FREQUENCY UNIT

New, rugged 12″ "woofer" especially designed for 2-way systems. Handles bass up to 2000 cycle crossover. Impedance, 16 ohms. Power rating, 25 watts. Shpg. Weight, 10 lbs. ST-912.
Net Each.......... $36.50

RP-102 HIGH FREQUENCY UNIT

A new advanced design "tweeter" for use in 2-way systems crossing over at 2000 cycles. Reproduces an unusually wide range from 2000 cycles to extremely high frequencies with smooth response, excellent balance and very low distortion. Impedance, 16 ohms. Power rating, 35 watts speech and music signal to input of 2-way system when used with A-204 network. Shipping Weight, 6½ lbs. ST-895. Net Each.......... $28.35

A-204 CROSSOVER NETWORK

Two-channel type, High-pass section transmits everything above 2000 cycles, low-pass, everything below this frequency. 180° constant-resistance type. 4⅜″ high, 3½″ wide, 3¼″ deep Shipping Weight, 3¾ lbs. ST-894. Net Each.......... $13.00

BALANCE AND LEVEL CONTROLS

Flush satin brass cup escutcheons, appropriately marked, mounting 1 11/16″ holes, and matching bar knobs. 25″ leads.

H-F Balance Control—For adjusting balance of H-F units. 16 ohms. ST-901. Net Each.......... $4.15

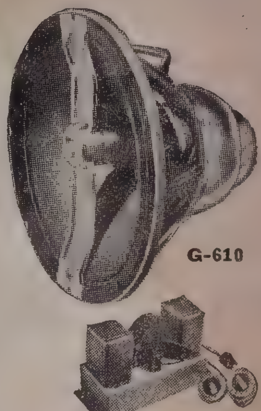
M-F Balance Control—For adjusting balance of M-F units. 16 ohms. ST-917. Net Each.......... $4.30

Level Control—Input control to speaker. 16 ohms. ST-880. Net Each.......... $4.30

Z-3422 Autotransformer—For matching any 2 of 16/8/4 ohm impedances. Net Each.......... $5.15

G-610 TRIAXIAL

The G-610 consists of 3 independently driven elements each covering a portion of the range and a Crossover and Control Network. Crossovers are at 600 and 4000 cycles. Low frequencies reproduced by a heavy duty curvilinear diaphragm unit. Mid frequency section has compression driver unit, flared cone of L-F unit acting as final section of horn. Special small H-F tweeter at front covers high end to limits of audibility. Combination smoothly covers the widest range available today! Power rating 35 watts. Impedance 16 ohms. Mounts in any cabinet for 15″ speaker; BL-151 cabinet recommended for outstanding results. Baffle opening 13¾″; OD 15⅜″; depth 10¾″. Shipping Wt., 50 lbs. ST-900.
Net Each.......... $252.75



TRANSFORMERS FOR G-610

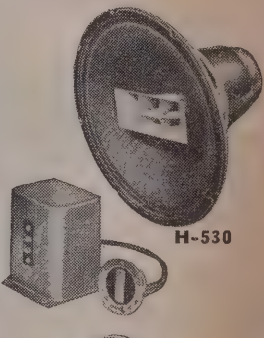
These transformers are high fidelity units, mounting directly on network chassis, with plug-in connections, to give alternate input impedances.

Model T-201—ST-846. 4 and 8 ohms. Net Each.......... $12.35

Model T-202—ST-847. 500-600 ohms. Net Each.......... $12.35

H-530 COAXIAL

In wide range extension, in the unusual degree of smoothness and the fine balance of response, this new coaxial has been acclaimed as a new milestone in speaker engineering. Low frequencies are reproduced by a highly efficient 15″ L-F unit designed especially for a smooth transition in the crossover region. Upper channel is a new compression driver perfectly matched to a special H-F divided cellular Hypex horn to reproduce a wide frequency range above 2000 cycles. Impedance, 16 ohms. Power rating, 30 watts speech and music signal input. Complete with network and H-F control. Baffle opening, 13¼″; O.D., 15⅛″; depth, 10½″. Shpg. Wt. 25 lbs. ST-893. Net Ea.. $129.50



H-520 COAXIAL

A new coaxial loudspeaker with the smoothness, fine balance and wide range response you expect in a truly advanced-design 2-way system. A compression driver unit loaded by a 6-cell Hypex horn reproduces frequencies above 2000 cycles. An efficient 15″ L-F unit handles the lower frequencies. Impedance, 16 ohms. Power rating, 25 watts speech and music signal input. Baffle opening, 13¼″; O.D., 15⅛″; depth, 9¾″. Shipping Weight, 16 lbs. ST-892. Net Each....... $79.50

MODEL H-222 COAXIAL

Outstanding, efficient, new wide-range 12″ coaxial with compression driver tweeter and 6-cell H-F horn brings a new meaning to high fidelity in a small speaker. Integral frequency division. Power rating 25 watts. Impedance 16 ohms. Baffle opening 10½″; OD 12⅛″; depth 8¼″. Has h-f balance control on 36″ cord. Shipping Weight, 12 lbs ST-875. Net Each.... $54.50

MODEL K-310A COAXIAL

A fine, low cost true two-way 15″ high fidelity speaker that will outperform many at higher prices. Integral frequency division system. Power rating 16 watts. Impedance 16 ohms. Shipping Weight, 18 lbs. ST-891.
Net Each.......... $37.60

MODEL K-210 COAXIAL

A 12″ high fidelity speaker at extremely low cost. Integral frequency division system. Power rating 12 watts. Impedance 8 ohms. Shipping Weight, 7 lbs. ST-831. Net Each.......... $24.85

University Speakers, Components

SPEAKERS AND NETWORK COMPONENTS

WOOFERS

MODEL C-15W DUAL IMPEDANCE RANGE WOOFER

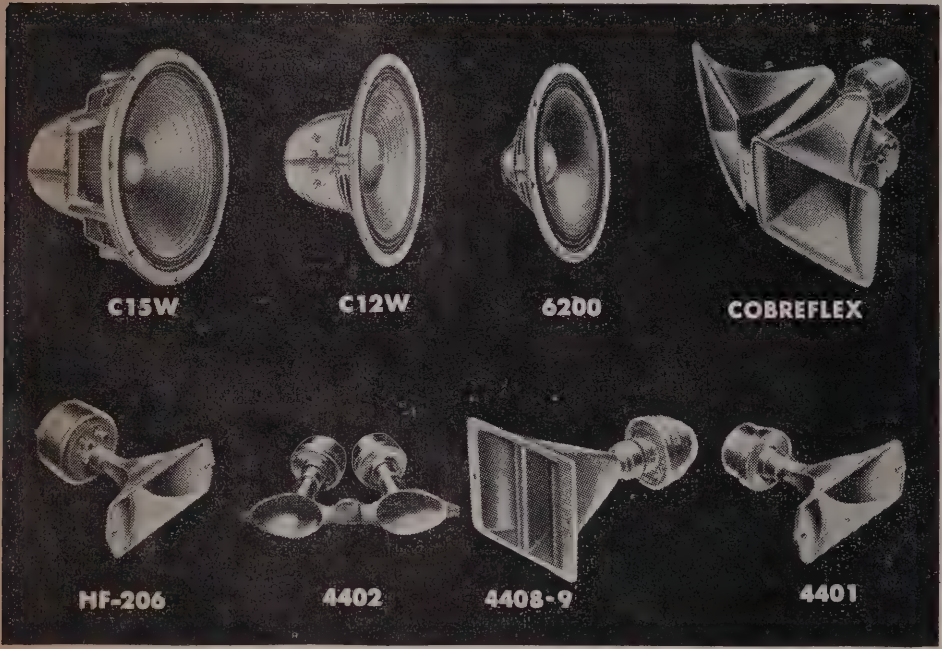
A 15″ speaker that may be used in any 2, 3 or 4 way systems using woofer crossover to 2,000 cycles. Can be used with amplifiers up to 50 watts in multiple-speaker systems. **Response:** to 3,000 cycles. **V. C. Impedance:** 4 to 8 ohms (parallel built-in connections) or 10 to 20 ohms (series built-in connections). **Overall Diameter:** 15⅜″. **Enclosure Opening:** 13⅞″. **Mounting Hole Centers:** 14 9/16″ diam. RETMA, 4 holes equally spaced of 9/32″ diameter. **Overall Depth:** 10¼″.
University Model C-15W—Net Each $75.00

MODEL C12W 12″ ADJUSTABLE RESPONSE WOOFER

An adjustable response woofer with built-in facilities for limiting high end response to 700, 2000 or 5000 cycles. **Overall Response:** 40-6000 cycles. **Power Capacity:** 30 watts. **Impedance:** 8 ohms. All connections made to binding posts. **Dimensions:** 12⅛″ diameter, 6½″ deep.
University Model C12W—Net Each $33.00

MODEL C8W LOW FREQUENCY REPRODUCER

Use with University 4401 tweeter and Model N-1 high pass filter or N-2B L/C network. Can also be used with additional C8W speakers as multi-speaker woofer. Low frequency response to 50 cycles. Suitable for crossover to 5000 cycles. **Impedance:** 8 ohms. **Power Capacity:** 25 watts. **Dimensions:** 8¼″ diameter, 4¼″ deep.
University Model C8W—Net Each $13.50



TWEETERS

MODEL HF-206 SUPER TWEETER

A completely all-new tweeter with high frequency response beyond audibility. Improved, die-cast aluminum wide angle horn based on famous University "reciprocating flares" principle. Super efficient new compression driver assembly also in die-cast aluminum casing. **Impedance:** 8 ohms. **Dispersion:** 120° horizontal and 50° vertical. **Response:** 3500-17,500 cycles. Requires 2½″ x 4⅞″ opening. **Overall Dimensions:** 6″ wide, 6 9/16″ deep, 3¼″ high.
University Model HF-206—Net Each $27.00

MODEL 4401 TWEETER

Renowned as hi-fi's most unusual value in high quality tweeters. Clean, efficient response from 2000-15,000 cps. Impedance 8 ohms. University Model N-1 filter or N-2B network can be used. Suitable for speaker systems up to 25 watts program input. 4½″ wide, 2⅝″ high, 5 7/64″ deep.
University Model 4401—Net Each $15.00

MODEL 4402 DUAL TWEETER

The most versatile device of this type on the market today. Dual horns are die-cast and compact design permits a variety of mounting methods. Use N-1 or N-2B network. **Frequency Response:** 2000-15,000 cps. Will match woofers of 4-16 ohms impedance, and operate with amplifiers of up to 50 watts. **Crossover:** 2000 cps. **Distribution:** 120° horizontal x 50° vertical. Width 9½″, height 2⅝″, depth 5 3/16″.
University Model 4402—Net Each $24.00

MODEL 4408 TWEETER

Employs exclusive patented "reciprocating flares" principle, providing 120° response free from usual dips and peaks. Heavy one-piece cast aluminum horn eliminates resonance buzzes. Driver uses heavy Alnico 5 magnet, lightweight diaphragm with dural suspension voice coil. Response 600-15,000 cps. Suitable for speaker systems with up to 15-20 watt program input. Use N-2A network. Overall height 5 13/16″, depth 11⅜″, width 7⅜″. Impedance 8 ohms.
University Model 4408—Net Each $18.00

University Model 4409—Same as above but for systems up to 25-40 watts. 10½″ d. Net Each $24.00

MODEL 2/T-30 COBREFLEX

Exceptional wide angle heavy duty mid-range speaker. Dual exponential design ensures uniform 120° field pattern. One-piece all die cast heavy gauge aluminum construction guaranteed for life. Low end cutoff 350 cps. Adjustable "U" mounting brackets.
University Model 2/T-30—Net Each $21.00

MID-RANGE

MODEL 6200 WIDE RANGE SPEAKER

12″ extended range hi-fi speaker for general use. Response 45-10,000 cps. 30 watt power rating. All Alnico 5 "W" magnet 2″ voice coil and dural suspension. Ideal for starting hi-fi system, adding tweeter later. See University's new P.S.E. Chart. 12⅛″ dia., 4 15/64″ depth.
University Model 6200—Net... $21.00

NETWORKS

MODEL N-1 ADJUSTABLE HIGH PASS FILTER

Provides crossover of 2500, 5000 and 10,000 cycles at 8 ohms; 1250, 2500 and 5000 cycles at 16 ohms; 5000 and 10,000 cycles at 4 ohms. Built-in continuously variable H-F control, screw-type terminals. **Dimensions:** 3⅝″ x 3¼″ x 3″. Requires 25/64″ hole. Fits panels to 1″ thick.
University Model N-1— Net Each $9.00

MODELS N-2A AND N-2B UNIVERSAL NETWORKS

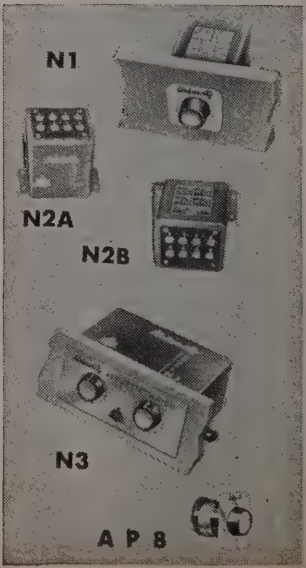
N-2B matches: 120, 2500 and 5000 cycles at 8 ohms; 2500 and 5000 cycles at 16 ohms; 2500 and 5000 cycles at 4 ohms. **N-2A matches:** 350 and 700 cycles at 8 ohms; 350 and 700 cycles at 16 ohms; 700 cycles at 4 ohms. **Dimensions:** 3⅝″ x 3¼″ x 3″.
Model N-2A—Net...**$18.00**
Model N-2B—Net...**$12.00**

MODEL N-3 3-WAY CROSSOVER NETWORK

New L/C type for use with University C15W woofer, Cobreflex-2 and the new HF-206 Super Tweeter. **Crossovers:** 350 and 5000 cycles. Complete with built-in "Presence" and "Brilliance" controls wired on extension leads. **Dimensions:** 7″ x 5″ x 3″.
University Model N-3 Net Each $24.00

MODEL AP-8 "BALANCE" CONTROL

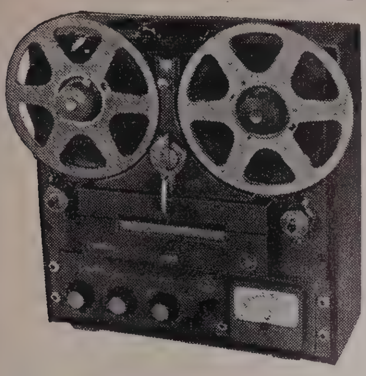
L pad for use with speakers and networks to balance sound to room acoustics, personal taste. Ideal for N-2A and N-2B networks. Knob and polished brass plate etched two sides, PRESENCE and BRILLIANCE. Extended shaft fits cabinets of various thicknesses. Shipping Weight: 7 oz.
University Model AP-8 Net Each $3.75



Berlant Concertone Tape Recorders

CONCERTONE TAPE RECORDING EQUIPMENT

NEW SERIES 20/20 TAPE RECORDERS



This Concertone Tape Recorder is the audiophile's companion piece to the Berlant Professional BR Series. Makes use of standard parts and components used in the Berlant Series Only such components as the motors and the exterior finish are different. **Tape Speeds:** 15 or 7½"/sec. **Frequency Response:** Usable response 20-20,000 cps; ±2db from 40-15,000 cps at 15"/sec. ±4 db 40-15,000 cps at 7½"/sec. **Signal to Noise Ratio:** 55 db as measured by proposed NARTB standard. **Harmonic Distortion:** 2% at Zero VU. **Flutter and Wow:** Less than 0.1% RMS at 15"/sec., less than 0.2% at 7½"/sec. **Stop to 15"/sec.:** 0.1 sec. **Head Mounting:** Interchangeable bracket mounting up to 5 heads. **Meter Indications:** Bias Current, Record Level, Output Level. **Monitor Output:** From tape or input signal. **Signal Mixing:** Variable from Line and Microphone. **Input Impedance:** One megohm on hi-Z mike input; 50/250 ohms balanced or unbalanced with T-3344 plug-in transformer; 200,000 ohms unbalanced bridging input. **Input Sensitivity:** 1 μ on mike input, .06 volt on bridging input. **Output Impedance:** Cathode follower or 600 ohms bal. with T-2560 plug-in transformer. **Output Level:** 6 volts from cathode follower; zero DBM across 600 ohm line. **Filament Supply:** DC on all filaments. **Size:** Drive mechanism, 14" x 19", mounting depth 6½" below panel. Amplifier, 5¼" x 19", mounting depth 6" below panel. **Tube List:** 2-12AX7, 1-12AT7, 2-12AU7, 1-12BH7, 1-6X5GT. **FEATURES:** 2-speed capacitor drive motor and 2 shaded pole take-up and supply motors, 5 heads, A-B Test Fader, 2-channel Mixer, Unified Control (Single error-proof lever system, fast variable rewind and forward, less than 60 sec. 2500 feet). **Power Required:** 220 watts, 115 volts, 60 cps. **Weight:** Drive, 35 lbs; Amp., 10 lbs.

Model TWR-2—Recorder-Amplifier. 7½" and 15"/sec. speeds. Complete with separate matched drive mechanism. Dual track heads. Without case. Net Each......... **$445.00**

Model TWR-1—Recorder. Single track heads. Net...**$470.00**

Model TWR-3—Recorder. Dual track. 3¾" and 7½"/sec. speeds. Net Each.......................................**$445.00**

Model TWSO-4—Recorder. Adapted for "Sound-On-Sound" recording. Two playback heads for switching between normal and "S-O-S" operation. With "S-O-S" Adapter 307. Net..**$505.00**

Model TWSD-5—Recorder. Single/Dual track operation. Five heads. With necessary switching and wiring. Net Each.**$530.00**

Model STW 4—Stereo-Monaural Recorder with two amplifiers. 7½" and 15"/sec. speeds. Separate drive mechanism. Rack panel or horizontal mounting. Two half-track erase heads, "stacked" binaural record and playback heads. Net Each.......**$695.00**

Model TW2A—Carrying case for Amplifier only. Net..**$47.50**

Model TWCW—Recorder Cabinet. Metal hammertone, matching Concertone panels for drive and one or two amplifiers. Vertical mounting. Net Each.................................**$24.00**

Model TWAC—Carrying case for Amplifier only. Net Each......**$24.50**

Model TWDA—Carrying case for both Drive and Amplifier, as illustrated above. Net Each..........**$67.50**

Model SBM-1—Matched binaural dynamic microphone, complete with phasing disc and case. For high impedance. Net Per Pair....**$135.00**

Model SBM-2—Same as SBM-1 except: for low impedance. Net Per Pair............**$135.00**

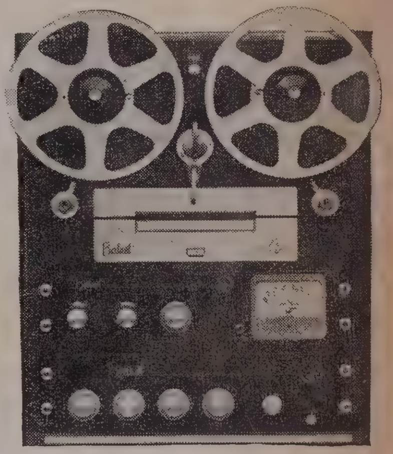
SBM-1

Model 307—Sound-On-Sound Adapter. Adapts Concertone Recorders for making sequential recordings. Includes Adapter and conversion kit..............................**$19.95**

Model TWPAC—Carrying case fitted with power amplifier speaker unit and with room for amplifier. Net Each..**$102.50**

Model T3344—Plug-in transformer for 50/250 ohm input, balanced or unbalanced. Net Each.........................**$18.00**

BERLANT "X" SERIES TAPE RECORDERS



An improved series of broadcast quality tape recorders. Features new hysteresis synchronous direct drive motor permitting timing accuracy to 99.8%. New 2-channel mixer for mixing and controlling volume of two separate signals simultaneously. New tape motion stabilizer also improves tape tension. Cannon Connectors are now standard on all models. Sync-Pulse (available at extra cost) system syncs tape with 16 or 35 mm movie film. Exclusive A-B Test Fader permits monitoring between incoming signal and playback. Provision for five heads. **Frequency Response:** 2 db, 40-15,000 cps at 15"/sec. 4 db, 40-15,000 cps at 7½"/sec. 2 db, 50-5000 cps at 3¾"/sec. **Signal-Noise Ratio:** 55 db (400 cps at 3% THD). **Total Harmonic Distortion:** 1% at zero VU. **Flutter and Wow:** Less than 0.1% (15"/sec.), 0.2% (7½"/sec.) and 0.3% (3¾"/sec.) RMS. **Rewind and Fast Forward:** Less than 60 sec. 2500 ft. Stop to 15"/sec. 0.1 sec. **Meter:** Bias Current, Record Level, Output Level. **Monitor:** From tape or input signal. **Input:** Impedance, 1 megohm on high imped. mike input. 50/250 ohms bal. or unbal. with plug-in transformer (T-3344). 200K ohms unbal. bridging in ut. Sensitivity, 1 mv on mike, .06 v. on bridging input. **Output:** Impedance, Cathode follower. 600 ohms bal. with plug-in transformer (T-2560). Level, 6 v. from cath. follower. Zero DBM across 600 ohm line. **Filament Supply:** DC on all filaments. **Dimensions:** Drive mech., 14" x 19", 6½" below panel. Amplifier, 5¼" x 19", mounting depth 6" below panel. **Weight:** Drive 35 lbs., amplifier 10 lbs. **Tubes:** 2-12AX7, 1-12AT7, 2-12AU7, 1-12BH7, 1-6X5GT. **Power Used:** 160 watts on 115-volt, 60-cycle AC only. (50-cycle motor available.)

Model BRX-1—7½" and 15"/sec. Broadcast Recorder. Consists of matched drive and amplifier, 2-channel Input Mixer, Cannon Connectors, Tape Motion Regulator. Single-track erase and record heads, dual track playback for both single and dual track. Net Each..**$595.00**

Model BRX-2—Same as BRX-1 but with three dual track heads. Net Each..... **595.00**

Model BAX-1—Automatic Recorder, BRX-1, Solenoid operated. Net Each..... **745.00**

Model BX-SP—Sync-Pulse system added to BRX-1 or BAX-1 at factory. Net.. **197. 0**

Model BAX-2—Solenoid operated automatic version of BRX-2. Net Each..... **745.00**

Model RCU—Remote Control with 25' cable (additional cable at 25c per ft.). Net Each..............................**$47.50**

Model SBX-4—Stereo-Monaural Recorder 7½" and 15"/sec. Drive mech. two amplifiers for 1 or 2-channel recording. 2 half-track erase heads, stacked binaural record and playback heads Complete. Net Each..............................**$845.00**

Model SBAX-4—Automatic, solenoid operated version of SBX-4 Stereo Monaural Recorder above. Net Each.........**$995.00**

Model BNC1—Channel Integrator for "Sound-on-Sound". Net Each..**$19.95**

Model BRDBX-4—Broadcast Recorder adapted to transmit a delayed broadcast and simultaneously receive another. Net Each.......................................**$640.00**

Model BRSDX-5—Broadcast Recorder for single and dual track. Heads BT-1, BT-22, BT-3, BT-44 and BT-66 with necessary switching and wire. Net Each......................**$680.00**

Model TMR—Tape Motion Regulator to add to earlier models. Net Each..**$2.95**

BRX Recorder in BRDC and BRPAC Cases

CARRYING CASES

Model BRDC—For BRX-D Drive Unit. Net Each.....**$47.50**

Model BRAC—For BRX-P Amp. and MCM-2 Mixer. Net **47.50**

Model BRDA—For BRX-D Drive and Amplifier. Net..**$67.50**

Model BRPAC—With Amplifier speaker unit and room for BRX. Net Each **$102.50**

Model CC-1—For BRX-P Amplifier only. Net Each. . **24.50**

Model RFBR—Roller Base for BRDA Case, with four 3-in. ball bearing swivel Bassick casters. Net Each.............**$12.50**

Model BCW—Recorder Cabinet; Metal hammertone matching panels. For BRX-D Drive, BRX-P Ampl., MCM-2 Mixer. Vertical. Net Each.................................**$24 00**

Model BKW—Consolette: Metal, gray hammertone. For BRX-D Drive and BRX-P Amplifier. Net Each.............**$44.40**

Model BYW—Base, Consolette. Has storage space for tape, reels, microphones and other accessories. Net Each.......... **$55.50**

MODEL MCM-2J MULTI-CHANNEL MIXER

Master gain controls mixed signal from all 4 channels simultaneously. 2 volt output level from cathode follower output. Zero DBM across 600 ohm line. DC on all filaments. Less than 1% total harmonic distortion at full output. Better than 65 db signal-to-noise ratio. One meg input impedance. Input sensitivity: 65 db below 1 volt will drive to full output level. Individual control potentiometers on all 4 channels after second stage of amplification. Frequency response 50-15,000 cps ±1 db. Mounted on 5¼" x 19" rack panel. Depth behind panel, 6". Wt., 12 lbs. 115 v., 60 cps, 40 watts. Net Each................. **$137.50**

Model MCM-2C Mixer—Above Mixer MCM-2J fitted with Cannon XL Connectors. Net Each.................**$145.00**

Model T-3344—Input Transformer. Matches High Imped. input to 50/250 ohm microphones. Net Each..............**$18.00**

Model T-2560—Output Transformer. Matches cathode follower output to 600 ohms balanced line input. Net Each.....**$25.00**

Model L-69—Losser Pad. Attenuate high imped. high level signals to match microphone level. Set at 0, 25 or 50 db. Net Each **$7.50**

Model E-47—Phono Equalizer. Matches variable reluctance pickup to microphone input. Net Each...................**$7.50**

Recording Discs and Equipment

audiodiscs

FOR EVERY RECORDING NEED

AUDIODISCS are high quality, precision-made instantaneous recording blanks which have established new standards of perfection and won the acclaim of professional and amateur recordists. Designed for all high fidelity recording. Audiodiscs meet every need with a type for each application.

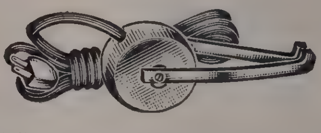
DESCRIPTION	Size, In.	Apx Thk In.	Approx. Record'g Time, Minutes 33 RPM	78 RPM	List Price Per Disc	Std. Pkgs. Contain	Net Price Per Disc in Std. Pkg.
RED LABEL Standard throughout the recording profession, Red Label AUDIODISCS exceed the professional demands of broadcasting stations, sound and movie studios and other exacting applications where top quality and dependability are essential requirements. They are the finest discs obtainable. Double-sided with center-pin and three drive-pin holes. Embossed label. Envelopes supplied in package. ***New 45 RPM.**	7*	.050	.....	.....	$1.28	25	$0.77
	8	.040	.....	2¼	1.00	25	.60
	10	.040	8	3½	1.40	25	.84
	12	.050	10	5	2.30	25	1.38
	16	.050	15	.....	4.22	25	2.53
SINGLE FACE RED LABEL In instances where professional recordists need to record on only one side of a disc, Single Face Red Label AUDIODISCS are available. Both sides are coated with the recordable side identified with embossed label. These discs have exactly the same fine qualities as standard Red Label and bring real economy to applications requiring but one side. Center-pin and three drive-pin holes. Envelopes supplied in package.	12	.050	10	5	1.86	25	1.12
	16	.050	15	.....	3.32	25	1.99
YELLOW LABEL The popular choice for all general purpose recording, Yellow Label AUDIODISCS are of high uniform quality. They are designed primarily for commercial recording studios, educational institutions, home recordists and other applications where the super quality Red Label AUDIODISCS are not required. Center-pin and three drive-pin holes. Paper label. Packaged in paper envelopes.	8	.040	.....	2¼	.84	25	.50
	10	.040	8	3½	1.12	25	.67
	12	.050	10	.....	1.86	25	1.12
	16	.050	15	.....	3.32	25	1.99
REFERENCE LABEL Especially adapted for making test cuts, filing and reference recordings, auditions and equipment adjustments. Reference Label AUDIODISCS fill a definite need. Since this work does not demand complete freedom from minor surface imperfections, these discs fully meet the necessary requirements. Center-pin and three drive-pin holes. Paper label. Packaged in paper envelopes.	10	.040	8	3½	.96	25	.58
	12	.050	10	5	1.42	25	.85
	16	.050	15	.....	2.52	25	1.51
BLUE LABEL For schools, homes, amateur and demonstration work, Blue Label AUDIODISCS offer the very best in recording quality at a low price. Made of exactly the same materials used in the manufacture of professional type of AUDIODISCS—except on a thinner aluminum base. Center-pin and three drive-pin holes. Paper label. Packaged in paper envelopes.	6½	.027	.....	1¼	.45	50	.27
	8	.027	.....	2¼	.62	50	.37
	10	.027	8	3½	.90	50	.54
MASTERS Where copies of recordings (pressings) are to be made by the electroplating process, Master AUDIODISCS are the outstanding choice. The excellence and consistent quality of these discs are well-known to all record processors. Master AUDIODISCS give fine results with either the gold sputtering or silvering process. These oversized discs are coated an extra thick aluminum base. Double-sided and Single Face. Center-pin and one drive-pin hole. Envelopes supplied in package.	Double-sided						
	12	.050	.....	5	2.92	25	1.75
	13¼	.065	.....	5	3.75	25	2.25
	16	.....	.....	.....	5.46	25	3.28
	17¼	.065	15	.....	6.30	25	3.78
	Single Face						
	12	.050	.....	.....	2.30	25	1.38
	13¼	.065	.....	5	2.64	25	1.58
	16	.....	.....	.....	4.44	25	2.66
	17¼	.065	15	.....	4.60	25	2.76

CHIP-CHASER

When making a disc recording with the outside-in feed, it is necessary to have some way of brushing the thread out of the way of the stylus. The Audio Chip-Chaser is the ideal answer to this problem. It has a heavy base which is placed beside the turntable and requires no fastening down or adjusting. The wiper blade is set on the disc before starting the recording. The Chip-Chaser automatically and infallibly brushes the thread toward the center, winding it up on the overhead post or drive pins, as the case may be. Fits any machine or turntable. Self-aligning—flexible joints, no adjustment necessary. Convenient—tips up out of the way when not in use.

Audio Devices Chip-Chaser— For up to 12″ turntable. Net Each. **$3.60**
For up to 16″ turntable-- Net Each...................... **$4.20**

AUDIO HEAD DEMAGNETIZER NO. 400



An AC magnet assembly provided with extended pole pieces. Will remove any permanent magnetism accumulated in recording head. 110-115v., 60 cps. **Audio No. 400**—Net Each....... **$7.20**

AUDIO ALIGNMENT TAPE NO. 200

Pre-recorded at 2kc, 10kc and 15kc for precise alignment of magnetic recording heads. Recorded at 15″ per second. 300-ft. tape wound on 5″ reel. Net Each...................... **$7.20**

GENERAL CEMENT RECORDING WIRE

Finest quality stainless steel recording wire for true production. Gives permanent recordings which can be played indefinitely. Easily erasable. Same wire as used by leading manufacturers of wire recorders. Supplied on standard RETMA spools to fit all recorders. Plastic leaders supplied with each spool.

G-C No. 5171—1 hour spool. In Maroon box. Net Each........ **$3.00**
G-C No. 5172—½ hour spool. In Blue box. Net Each........... **1.80**
G-C No. 5173—¼ hour spool. In Green box. Net Each.......... **1.20**
G-C No. 5174—Plastic leaders, with eyelets attached. Per Set. Net Price...**13c**
G-C No. 5175—Nylon crf leaders, for usec on W/C and others. Envelope. Net..**27c**
G-C No. 5176—Emptywindoer spooll Net Price..........................**45c**

audiopoints
RECORDING

SAPPHIRE No. 14—This AUDIOPOINT has long been recognized by recording engineers as the best recording stylus made. The jewelled point, with 87° included angle, correct radius and fine polish, cuts a silent, shiny groove for many hours. It is especially designed to insure proper thread throw and each stylus is disc tested on a recording machine just before packaging, thus guaranteeing quality and uniformity. Can be resharpened a number of times. Supplied with short or long dural shank. (Also available with 70° included angle.) Net Price....... **$4.50**

SAPPHIRE No. 20—Especially designed for professional microgroove recording. Short or long dural shank. Can be resharpened. Net Each..................... **$4.50**

STELLITE No. 34—A favorite with many professional and non-professional users. Short or long shank. 87° included angle. Net Each................ **$1.20**

DIAMOND-LAPPED STEEL No. 50—Most practical stylus for use by non-professional recordists. Cannot be resharpened. Mounted 3 per card. Net Price.................... **$1.05**

SAPPHIRE No. 202—A professional recording stylus with brass shank ideally suited for those recordists not requiring the super quality of Sapphire AUDIOPOINT No. 14. Supplied with short or long shank. Can be resharpened. Net Price.................. **$3.60**

Sapphire No. 113—The outstanding choice of professional recordists. Materials workmanship and design make this playback sapphire the finest obtainable. Reproduces recorded sound with complete fidelity and minimum disc wear. One of these points will play thousands of instantaneous recordings or vinyl transcriptions. NOT FOR USE ON SHELLAC RECORDS. Can be repolished. Net Price...................... **$2.70**

Recording Tape and Accessories

MINNESOTA MINING "SCOTCH" RECORDING TAPE

NO. 190 (A* OR B**) EXTRA PLAY TAPE

Plastic base maroon colored tape that will record 50% longer on a reel than formerly possible. High potency oxide coating reduced from .6 mils to .3 mils on a 30% thinner plastic back. Provides greater flexibility plus increased response on the high end. Machine changes or adjustments usually not required, and tape may be spliced into reels of heavier tape.

Scotch No.	Reel Size and Type	Feet Tape	List Price	NET EACH 1-11 Reels	NET EACH 12 or More
190A-9	5″ plastic	900	$ 4.50	$ 3.00	$ 2.70
190A-18	7″ plastic	1800	7.70	5.14	4.62
				1-5 Reels	6 or More
190A-36H	10½″ NARTB Hub	3600	14.40	$ 9.60	$ 8.64
190A-36R	10½″ NARTB Reel	3600	17.25	11.50	10.35
190A-72H	14″ NARTB Hub	7200	28.80	19.20	17.28
190A-72R	14″ NARTB Reel	7200	34.80	23.20	20.88

No. 120 (A* or B**) "SCOTCH" HIGH OUTPUT TAPE

Plastic base, green color. Unequaled performance in difficult recording applications, giving at least 8 db more output with no increase in harmonic distortion. Professional reel, 2¾″ hub.

Scotch No.	Length of Tape and Description of Reel or Hub	List Price	Net Per Reel 1-11 Reels	Net Per Reel 12 or More
120A-3†	300′, plastic reel	$2.00	$1.33	$1.20
120A-6†	600′, plastic reel	4.00	2.67	2.40
120A-12†	1200′, plastic reel	6.50	4.34	3.90

Scotch No.	Length, Description	List Price	1-5 Reels	6 or More
120A-24H†	2400′, NARTB hub	$12.00	$ 8.00	$ 7.20
120A-24R†	2400′, NARTB 10½″ reel	14.85	9.90	8.91
120A-48H†	4800′, NARTB hub	24.00	16.00	14.40
120A-48R†	4800′, NARTB 14″ reel	30.00	20.00	18.00

*Magnetic coating wound face in. **Magnetic coating wound face out.

SCOTCH
Magnetic Tape
190
Extra Play
SCOTCH
Recording Tape
SCOTCH
Magnetic Tape
High & Output

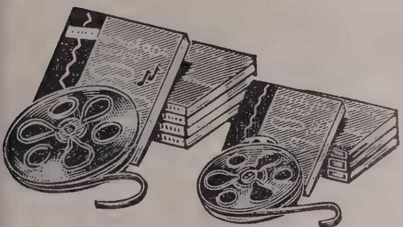
NO. 120AM (A* OR B**) TAPE

Same as No. 120, but with Polyester backing.

Scotch No.	Reel Type and Length of Tape	List Price	Net Each 1-11 Reels	Net Each 12 or More
120AM-6	600′ plastic reel	$ 5.75	$ 3.84	$ 3.45
120AM-12	1200′ plastic reel	10.75	7.17	6.45
			1-5 Reels	6 or More
120AM-24H	2400′ NARTB Hub	18.95	12.64	11.37
120AM-24R	2400′ NARTB Reel	21.80	14.54	13.08
120AM-48H	4800′ NARTB Hub	37.90	25.27	22.74
120AM-48R	4800′ NARTB Reel	43.90	29.27	26.34

*Magnetic coating wound face in. **Magnetic coating wound face out. †Output variation within the reel at 10,000 cps is less than ± ¼ db and is less than ± ½ db from reel to reel. The entire length is splice-free, except 4800′ length, which contains a maximum of one splice.

AUDIOTAPE RECORDING TAPE AND REELS



Audiotape has been developed to meet the most rigid requirements for professional as well as amateur use, and to assure optimum performance. Audiotape is supplied on plastic reels, designed to fit all standard machines. Also available in 7″ plastic reels on special order. (If stock number ends in **0**, oxide wound out. If number ends in **1**, oxide wound in. Here are some of the outstanding features:

1. Superior straight line slitting makes the tape track and wind flat. High signal to noise ratio, low distortion.
2. The tape is completely free from any tendency to stick, layer to layer.
3. AUDIOTAPE has no audible low-frequency modulation noise.
4. Unequalled uniformity of output. Plastic-base tape guaranteed not to exceed ±¼ db within the reel and ±½ db from reel to reel. Wider bias range for optimum results.
5. Plastic base AUDIOTAPE, in 1250 and 2500 foot reels is guaranteed to be free from splices.

REELS, HUBS, FLANGES, BOXES

Audio No.	Description	Std. Qy.	List Price	Net Each	Net Ea. Std. Qy.
3L	150-ft. Leader Tape	10	$0.60	$0.40	$0.36
30AL	Adhesive Labels (30)	10	.25	.17	.15
3P	3″ Plastic Reel	10	.15	.10	.09
4P	4″ Plastic Reel	10	.30	.20	.18
5P	5″ Plastic Reel	10	.40	.27	.24
7P	7″ Plastic Reel	10	.65	.43	.39
10H	Stand. NAB Alum. Hub	5	.65	.43	.39
10S	Pair 10½″ Side Flanges	5	3.35	2.23	2.01
10R	10½″ Aluminum Reel	5	4.00	2.67	2.40
14S	14″ Side Flanges, Alum.	5	7.25	4.83	4.35
3B	Empty Box for 3″ Reel	10	.15	.10	.09
4B	Empty Box for 4″ Reel	10	.15	.10	.09
5B	Empty Box for 5″ Reel	10	.15	.10	.09
7B	Empty Box for 7″ Reel	10	.20	.13	.12
10B	Empty Box for 10½″ R'l	5	.65	.43	.39
14B	Empty Box for 14″ Reel	5	1.00	.67	.60
3PB	3″ Plastic Reel in Box	10	.25	.17	.15
4PB	4″ Plastic Reel in Box	10	.40	.27	.24
5PB	4″ Plastic Reel in Box	10	.55	.37	.33
7PB	7″ Plastic Reel in Box	10	.85	.57	.51
10RB	10½″ Al. Reel in Box	5	4.50	3.00	2.70
14RB	14″ Al. Reel in Box	5	8.70	5.80	5.22
5M	Cor. Mail. Box., 5″ Rl.	50	.15	.10	.09
7M	Cor. Mail. Box, 7″ Rl.	50	.20	.13	.12
10M	Cor. Mail. Box, 10½″ Rl	50	.30	.20	.18

PLASTIC BASE AUDIOTAPE IN COLORS

Audiotape No.*	Length in Feet	Oxide	List Price	Net Each	Lots of 10, Net Each
150	150	Red	$ 0.85	$0.57	$0.51
151	150	Red	.85	.57	.51
350	300	Red	1.60	1.07	.96
351	300	Red	1.60	1.07	.96
650	600	Red	3.50	$2.33	$2.10
651	600	Red	3.50		
1250	1200	Red	5.50	$3.67	$3.30
1251	1200	Red	5.50		
2551H‡	2500	Red	10.00	6.67	6.00
2551R†	2500	Red	12.85	8.57	7.71
5051R†#	5000	Red	26.00	17.33	15.60
5051H‡	5000	Red	20.00	13.33	12.00

‡On NARTB hub. †On NARTB 10½″ alum. reel. #1000 meters. *Catalog Number shown is for red tape; to order green tape add suffix "G"; to order blue tape add suffix "B" to number; to order yellow add suffix "Y".

MYLAR* BASE AUDIOTAPE

Exceptional strength, virtually unbreakable under normal conditions. Immune to humidity, moisture and temperature. 1½ mil thick. Most permanent recording medium ever developed. *Dupont trademark.

Audio No.	Length	Reel	List Price	Net Each	10 or More Net Each
371	300′	4″ Plastic	$ 2.75	$ 1.83	$ 1.65
671	600′	5″ Plastic	5.00	3.33	3.00
1271	1200′	7″ Plastic	8.25	5.50	4.95
2571H	2500′	Std. NAB Alum. Hub	15.00	10.00	9.00
2571R	2500′	10½″ Aluminum Reel	17.85	11.90	10.71

TYPE LR AUDIOTAPE

Provides 50% more recording time on a single reel of tape. Same quality as plastic base tape, but uses base material of 1 mil Mylar* polyester film having a much higher tensile and tear strength than cellulose acetate of the same thickness.

Audio No.	Length	Reel	List Price	Net Each	10 or More Net Each
961	900′	5″ Plastic	$ 4.40	$ 2.93	$ 2.64
1861	1800′	7″ Plastic	7.95	5.30	4.77
3661H	3600′	Std. NAB Alum. Hub	16.00	10.67	9.60
3661R	3600′	10½″ Aluminum Reel	17.95	11.97	10.77

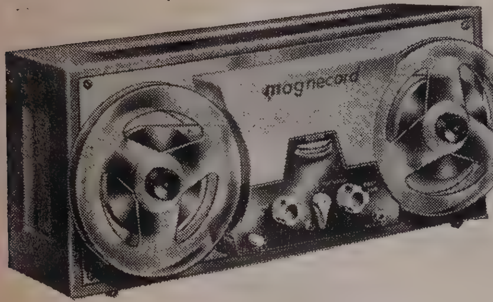
COLORED PLASTIC REELS

5″ and 7″ plastic reels are now available in red, yellow, green, blue and clear plastic. Different colors can be used to identify studio, field, safety and customer's tapes; for storage of important "don't erase" material, etc.

Per empty 7″ reel, List Price **85c.** Net Each.............. **51c**
Per empty 5″ reel, List Price **55c.** Net Each.............. **37c**

New Magnecord Tape Recorders

NEW MODEL F35-B "CITATION"



Smartly styled for schools, churches, hi-fi enthusiasts, etc. New streamlined styling. Compact and portable with new light weight (40 lbs.). New VU meter, power amplifier, speaker and microphone.

SPECIFICATIONS

Tape Speeds: 3¾" and 7½" by capstan change. **Frequency Response:** At 3¾", ±2 db, 50-5,000, extended range to 7,000 cps; at 7½", ±2 db, 50-10,000, extended range to 12,000 cps. **Playing Time at 3¾":** 2 hours, half track. **At 7½":** 1 hour, half-track. **Reel Size:** 7-inch. **Rewind Time:** 40 seconds. **Signal-to-Noise Ratio:** 45 db, half track. **Monitoring:** Phone jack on front. **Flutter:** .3%. **Record Amplifiers:** Printed circuit. **Inputs:** (**a**) High impedance microphone. (**b**) High impedance, high level (0.1 volt). **Playback Amplifier:** 8 watts output. Phone jack for external speaker. Low impedance cathode follower output for feeding external hi-fi system. Speaker size 6" x 9". **Control:** Knob with safety interlock to prevent accidental erasing of recorded tape. **Panel Size:** 8½" x 15". Illuminated VU meter. **Power Consumption:** 115 watts. **Weight:** Approximately 40 lbs. In tan cowhide leather, the new Citation is stylishly modern and handsomely cased. A ceramic microphone is included in the hood of the case, together with one reel and container.

Model F35-B—With shaded pole motor............ $\$349^{00}$

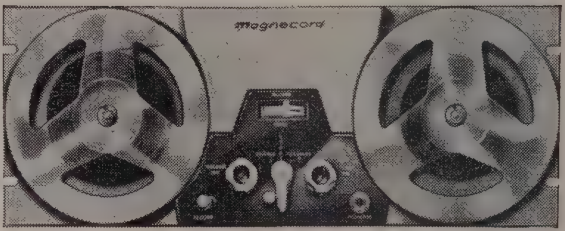
Model S35-B—With hysteresis synchronous motor...**$399.00**

NEW MODEL S36-B STUDIO AND PROFESSIONAL RECORDER

Combined recording perfection and reproduction in a rack mount unit for studio and professional use. Also available in carrying case.

SPECIFICATIONS

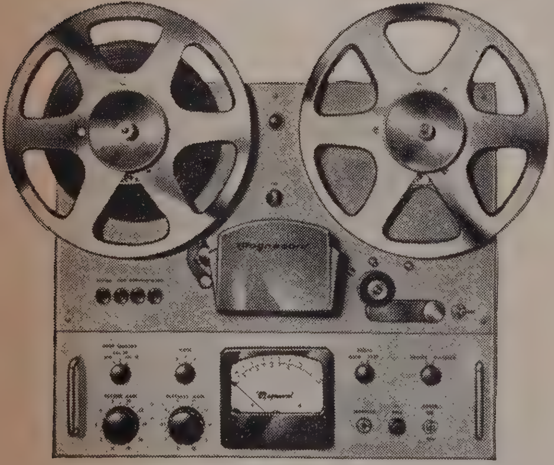
Tape Speed: 7½" and 15" per second by capstan change. **Hysteresis synchronous motor drive. Rewind Time:** 40 seconds. **Frequency Response:** At 7½", ±2 db from 50 to 12,000 cps; at 15", ±2 db from 50 to 15,000 cps. **Wow and Flutter:** 0.3% maximum. **Reel Size:** 7-inch. **Signal-to-Noise Ratio:** 50 db, based upon full track recording at 3% T.H.D. Illuminated V.U. meter, monitor jack on front panel, knob control with interlock to prevent accidental erasure of tape. **Record Amplifier:** Printed circuit construction. Inputs (**a**) High impedance microphone. Sensitivity −72 db to −15 db re 1 volt. (**b**) Low impedance microphone (using optional transformer Magnecord Part No. 91X1745, 50/250 ohms to grid). Sensitivity −92 to −35dbm. (**c**) Unbalanced bridge (500,000 ohms). Sensitivity 0.1 volt for zero recording level. **Playback Amplifier:** Outpnt, 600 ohms, balanced at +9 dbm, **Panel Size:** 7" x 19". **Power Consumption:** 80 watts. **Weight:** (In portable case, approximately 45 lbs.



Model S36-BX—Without carrying case........... $\$370^{00}$

Model S36-B—Carrying case included..............**$395.00**

NEW "EDITOR" MODEL P60-A PROFESSIONAL RECORDER



Professional rack mount unit. Illustrated with Model M81 CX Amplifier. Available in carrying case with M81-C Amplifier. Adjustable bias current, high speed cueing control, deep slot loading, easy edit.

SPECIFICATIONS

Tape Speed: 7½" and 15" per second. **Tape Drive:** Direct motor capstan drive. **Reel Size:** 10½" NAB and 7". **Tape Take-up:** Torque motor. **Operational Controls:** Push-button type. **Tape Loading:** Deep-slot, with automatic tape lifting in rewind and hi-forward. **Head Configuration:** Three heads—erase, record and playback (provides simultaneous playback). **Starting Time:** Instantaneous (to normal forward). **Stopping Time:** Instantaneous (from normal forward). **Safety Features:** Fail-safe brakes; tape break control. **Frequency Response:** 40 to 15,000 cps, ±2 db at 15" per second; 40 to 10,000 cps ±2 db at 7½" per second. **Signal-to-Noise Ratio:** 55 db based upon 3% total harmonic distortion point (full track). **Flutter and Wow:** 0.2% at 15" per second; 0.25% at 7½" per second. **Timing Accuracy:** ±3 seconds in 30 minutes. **Rewind Time:** Less than 90 seconds for 10½" reel. **High Forward Time:** 90 seconds for 10½" reel. **Transport Unit Panel Sizə:** 19" x 10½". **Transport Unit Weight:** 30 lbs. (without carrying case). **Transport Unit Power Consumption:** 165 watts maximum.

Model P60AX—Transport Unit, without carrying case $\$390^{00}$

Model P60B81—Above, combined with M81-C Amplifier in carrying case......................................**$625.00**

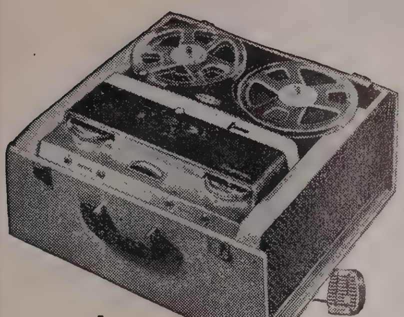
MODEL M81-CX AMPLIFIER (ILLUSTRATED WITH P60-A ABOVE)

Inputs: Microphone—high impedance (470,000 ohms) unbalanced. **Bridge:** Unbalanced, sensitivity 15 millivolts for zero level recording. 50/200 ohm microphone, balanced or unbalanced, and balanced bridge inputs available through use of optional plug-in input transformer. Sensitivity of low impedance microphone input, −90 dbm to −30 dbm. **Output:** Cathode follower, unbalanced. Minimum load impedance, 20,000 ohms, 600 ohm balanced or unbalanced output available through use of optional plug-in output transformer. Output level +6 dbm when meter indicates zero VU, +18 dbm at 1.3% total harmonic distortion. **Distortion** 0.6% with a +6 dbm output at 400 cps. **Noise:** 66 db below a 1000 cps signal played back from a standard tape recorded at 3% third harmonic distortion point. **Metering:** Bias, record level and playback level are measured on a standard 4" illuminated VU meter. **Tubes:** 2-6BK7; 2-12AU7; 1-5Y3GT; 1-12AX7; 1-12BH7. **Power:** 72 watts at 117 volts, 60 cps. **Panel Size:** 19" x 5½".

Model M81-CX Amplifier—As illustrated with P60-A above. Without case......................... $\$225^{00}$

Pentron Tape Recording Equipment

TAPE RECORDERS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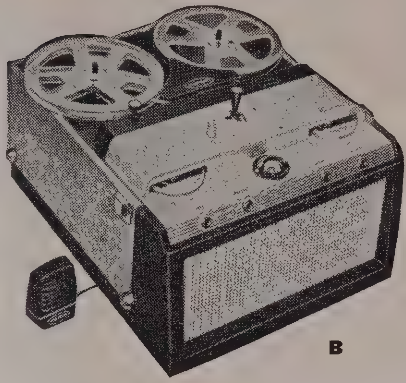
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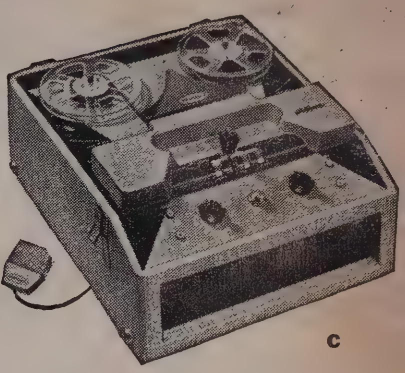

C

"EMPEROR" (FIG. A)

Completely new Dual Track, Dual Speed, High Fidelity Tape Recorder, featuring UNIMAGIC Single Lever Control, 3-speaker hi-fi playback (2 woofers in recorder case, one tweeter mounted in separate baffle) and an LC Crossover Network at 1,000 cps. 10 watt push-pull amplifier output. VU meter for accurate recording level setting. Automatic index counter. Two tape speeds (7½" and 3¾"/sec.) Up to 3 hours recording and playback time. Microphone and radio input jacks plus auxiliary amplifier and speaker jacks. **Frequency Range:** (7½"/sec.)—40 to 12,000 cycles; (3¾"/sec.)—40 to 6000 cycles. **Signal to Noise Ratio:** 50 db. Fast forward 20 to 1 (70 seconds for 1200 feet). Flutter less than 0.3% at 7½"/sec. **Controls:** Unimagic, single lever control for Play or Record, Fast Forward and Rewind with separate interlocking record switch; Push-button Speed Change; Volume control with on-off switch; Tone Control for continuously variable response, with meter on-off switch built-in. **Tubes:** 1-5879, 1-6SL7, 1-6V6, 1-12AU7, 2-6AQ5, 1-6X5GT. **Overall Dimensions:** 15¾" x 15" x 11". **Power Consumption:** 80 watts at full load. **Weight:** 33 lbs. with accessories. For 105/120 v. AC, 60 cycles. (Also available for 50 cycle and/or 220 volt operation).
Pentron Model HF 400 Tape Recorder—
List Price, **$249.50;** Net Each.......................... **$187⁵⁰**

"PACEMAKER" (FIG. B)

Similar to Model HF 400, but with two speakers. Features Fast Forward, Fast Rewind, and Play operating positions, plus all the efficiency and convenience of the separate recording switch and Unimagic Control. Up to 3 hours recording and playback time. Magic eye recording indicator gives positive recording control and accurate playback level at all times, thus eliminating guesswork. Separate mike, radio input jacks, and auxiliary speaker and amplifier jacks. Separate Record-Playback and Erase heads assure true tone reproduction in all tonal ranges and volumes. Features removable pole pieces. Frequency range at 7½"/sec.—50 to 10,500 cycles; at 3¾"/sec. 50 to 5000 cycles. Three hours recording time on 7" reel, using new long play tape. **Capacity:** 90 minutes at 7½"/sec. and 3 hours at 3¾"/sec. Signal to noise ratio 50 db. Fast (20 to 1) Forward and Rewind speeds. **Speakers:** 1 woofer; 1 tweeter. Flutter less than 0.5% at 7½"/sec. Power output 5 watts. **Tubes:** 1-5879, 1-6SL7, 1-6V6, 1-6E5, 1-6X5. **Overall Dimensions:** 13" x 15" x 10". Power consumption 80 watts at full load. **Weight:** 27 lbs. **Line Voltage:** 105/120 v. AC, 60 cycles. (Also available for 50 cycle and/or 220 volt operation).
Pentron Model T-90 Tape Recorder—
List Price, **$189.50;** Net Each.......................... **$139⁵⁰**

"CLIPPER" (FIG. C)

Completely portable and self-contained tape recorder featuring the MONOMATIC CONTROL. The MONOMATIC is a single knob slide type control providing the instant selection of Record or Play as well as Fast Forward and Fast Rewind (40 to 1). Has 7½"/sec. and 3¾"/sec. tape speeds. Straight-line slot loading of tape. Operates in any position. Record-Playback and erase heads feature removable pole pieces. Two input jacks: Microphone input jack for recording from microphone. Radio input jack for recording direct from radio, TV sound, or phonograph. Two output jacks: Auxiliary Speaker jack for direct connection to any external speaker. Auxiliary Amplifier jack for connection to any external amplifier or public address system, or for monitoring with headphones. **Frequency Range:** 50 to 9000 cps (7½"); —50 to 5000 (3¾"). **Capacity:** 90 min. and 3 hours respectively. **S/N Ratio:** 42 db. **Speaker:** 4 x 6 Oval. **Output:** 5 watts. **Tubes:** 1-5879, 1-12AX7, 1-6AQ5, 1-6X4. **Overall Dimensions:** 15¾" x 13¾" x 8⅛". Revolutionary new design of recorder and case compliments any decor. Generous storage area for accessories. Draws 70 watts at 105/120 v. AC. Weight 23 lbs.
Pentron Model RWN Tape Recorder—Including Microphone. List Price, **$129.50;** Net Each.......... **$99⁵⁰**

INTERMATCHED COMPONENTS

MP-2

PROFESSIONAL TAPE PREAMPLIFIER P-4

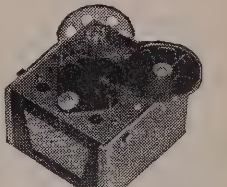
Used with Model TM-56 Tape Mechanism, this Preamplifier provides a professional system. **Frequency Response:** 50-12,000 cps, ±3 db. **Signal to Noise Ratio:** 47 db. **Controls:** Gain/Power; Record/Play; Tape/Radio; Motor Power. Illuminated VU Meter. Front panel is brushed copper with contrasting black controls.
Pentron Model P-4 $77.75 Preamplifier—List Price, Price $77.75; Net **$59.75**

TWO-SPEED TAPE MECHANISM TM-56

Features UNIMAGIC Single Lever Control for Record, Play, Fast Forward or Fast Rewind. Two-Speed Push-Button Control (3.75" and 7½"/sec.). **Flutter:** 0.3% at 7½"/sec. Shaded, four-pole, indusction-type, balanced motor. Low-hum heads with removable pole pieces. Interchangeable for full width or dual track heads.
Pentron Model TM-56 Tape Mechanism—List Price, **$77.75;** Net Each.. **$59.75**
Pentron Model TM-56—With Single Track Head. List Price, **$87.75;** Net Each.. **$67.25**

PROFESSIONAL COMPONENT RECORDER

Consists of Models TM-56 and P-4 mounted in a sturdy, attractive carrying case. Ready to use. Just plug into an audio amplifier, radio, TV or radio-phono combination.
Pentron Model MP-2 Hi-Fi Component Recorder—List Price, **$174.50;** Net Each.......................... **$134.50**
Pentron Model MP-2—With Single Track Head—List Price, **$184.50;** Net Each.......................... **$142.00**


PB-A 2

MM-4

ELECTRONIC MIKE MIXER MM-4

A professional type electronic mixer, it makes possible multiple mike recording for all audio systems. Four individual controls permit desired blending from four sound sources, simultaneously. **Frequency Response:** 20-20,000 cps. **Six High Impedance Inputs:** 4 microphone, 2 phonograph. **Gain:** Microphone, 8 db; Phonograph, 22 db. Extremely low hum level.
Pentron Model MM-4 Electronic Mixer—Net Each... **$35.70**

TAPE PLAYER PB-A2

Plays back magnetic recordings. 7½" (**Response** 50-8000 cps) and 3¾ (**Response** 50-5000 cps) inches per second. 5¼" Alnico V speaker. 20:1 fast forward and rewind. 11⅜" x 12¼" x 9¾". **Weight:** 22 lbs. Speaker, amplifier built-in.
Pentron Model PB-A2—With dual track head. Net Each **$89⁴⁰**
Available also with single track head—Net Each...... **$94.25**

ACCESSORIES

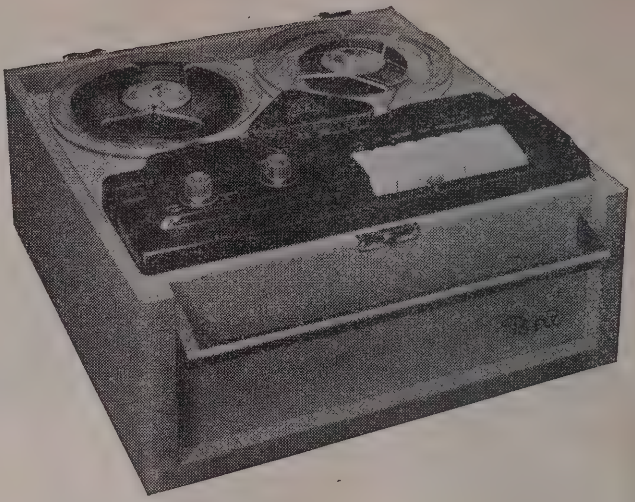
Pen. No.	Description	Net Ea.
X-166	Cord (Connects to voice coil of speaker)....	$ 1.88
X-167	Microphone Cord with Plug and Socket....	5.63
X-155	Telephone Pickup Micropho e............	9.38
X-300	Tape Carrying Case—holds up to 12 reels, 7" or 5". Two-tone simulated leather.....	5.95

23N-55C

BELL SOUND SYSTEMS

Tape and Disc Recorders

NEW MODEL RT-88 TWO-SPEED TAPE RECORDER



Here is Bell's newest portable tape recorder and playback unit. Brand new in design and appearance with equally advanced operating and control features, yet moderately priced. **Features:** Piano-Key Push-Button Type Control of all major functions. Select either speed (3¾″/sec. and 7½″/sec.), set for record, etc., all with fingertip ease and sureness. Three separate motors! Extremely fast forward and rewind speeds—45 seconds for a 7″, 1200-foot reel! Very low flutter and "wow". Dual track recording, for twice the recorded material on each single tape. The controls include tone and volume, plus a unique loudness level indicator. Pilot light. Cream colored carrying case is trimmed in maroon and gold. Case has ample space for one 5″ reel of tape, one empty 5″ reel and the microphone, all of which are furnished as standard equipment.

GENERAL SPECIFICATIONS

Power Output: 3.5 watts. **Power Consumption:** 100 watts, 110-120 volts, 60 cps AC. **Frequency Response:** 50-10,000 cps. **Tape:** Dual track, type A. **Two Inputs:** One microphone, one radio or phono. **Two Outputs:** One external loudspeaker (6-8 ohms), one monitor (headphones). **Speaker:** 6-8 ohm voice coil. **Tubes:** 4. **Controls:** Tone and Power Switch; Volume; 3¾″/sec. **Speed:** 7½″/sec. Speed; Record; Play; Fast Forward; Fast Rewind; Stop. **Size:** 15½″ wide x 17″ deep x 8″ high. **Weight:** 27 lbs.

Bell Model RT-88 Tape Recorder—Net Each...... $139.95

MODEL RT-75 THREE-SPEED TAPE RECORDER

First and above all, a tape recorder and playback unit with excellent frequency response and in which wow and flutter are less than .25% at fastest tape speed. **FAST FORWARD AND REWIND**—Features pushbutton fast-rewind (70 seconds for a 7″ reel) and pushbutton fast-forward speeds (90 seconds for a 7″ reel). Controls include volume, boost and cut for tone, and a pushbutton recording switch with safety interlock which positively prevents accidental erasure. Two microphone inputs—one for high impedance crystal, one for dynamic or ceramic—and a radio, phono, or TV input. Microphone and phono input can be recorded at the same time. **POSITIVE ACTION CONTROL LEVER** permits selecting any of three tape speeds—7.5 inches per second for highest fidelity (50 to 9,000 cycles per second ±3 db), 3.75 ips for general purpose, home movies, slide projector narration, music practice sessions, etc. (50 to 6,500 cps ±3 db), and 1.875 ips for long lectures, speech classes, meetings (50 to 4,000 cps ±6 db). Equalization is automatically effected when you change from one speed to another. Dual-track recording head permits up to 4 hours of recorded sound on a 7-inch reel at the 1.875 ips speed! It handles all reels of 7-inch and smaller diameters, and tape loading has been greatly simplified. **EXTRA LARGE SPEAKER** for better sound is 6″ x 9″ oval, wide range unit. Outputs include one 3.2 ohm for external speaker, one 500 ohm, and one Hi-Z external amplifier output for feeding high fidelity music systems, which bypasses the unit's output stage. Handsome case, covered with durable plasticized fabric, has ample tape and microphone storage space. Removable cover plate permits easy access to tubes and fuse. Equipped with pilot light, recording indicator light, and neon-type level indicator.

GENERAL SPECIFICATIONS

Power Output: 3.5 watts. **Tubes (5):** Two 12AX7, one 6C4, one 6V6GT, one 6X5GT. **Power Consumption:** 100 watts, 110-120 volts, 60 cycles. **Size and Weight:** 16⅜″ x 15″ x 9⅛″, 35 lbs.

Bell Model RT-75—Furnished complete with microphone, 600-ft. reel of inside-coated tape, 5″ takeup reel and an instruction manual. Net Each.................... $164.95

MODEL 2260 CUB-CORDER

Smaller than a portable typewriter and weighing less than 13 lbs., this is a truly portable tape recorder that operates for two hours on its own batteries. One of the batteries can be recharged from an automobile cigar lighter socket. The other is a standard "B" battery, good for 50 hours' service. The microphone has a built-in monitor playback so that it can be used as an earphone for on-the-spot playback. Miniature transformer, built into the unit, permits you to play tapes through any radio—without connecting to the set! Cub-Corder is made in two models, identical except for speed: **Model 2260**—7½″ and 3¾″/sec. **Model 2261**—3¾″ and 1⅞″/sec. 7½″/sec. speed affords highest fidelity; 1⅞″/sec. speed is recommended for voice only; gives greatest amount of sound per foot of tape. **Power Supply:** 4 v. Willard non-spill wet battery; 67½ v. "B". **Motor:** Precision constant speed type. **Frequency Response:** 200-6,000 cps at 7½″/sec. **Input:** High impedance ceramic microphone. **Output:** High impedance for mike, earphones or external amplifier. **Tubes:** 6. **Controls:** Volume; 3-Position Function (Listen, Off, Record). **Size:** 13¼″ x 12¼″ x 5⅝″. **Weight:** 12⅞ lbs.

Bell Model 2260—(7½″ and 3¾″/sec.). Net Each... $224.95

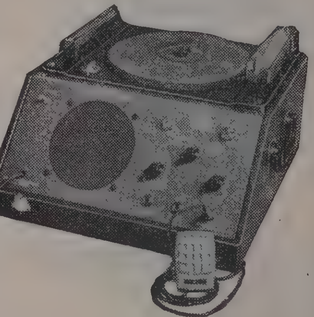
Bell Model 2261—(3¾″ and 1⅞″/sec.). Net Each... $224.95

Bell Model 2262—Same as 2260 except center track recording head. Net Each...................... $234.35

Bell Model 2263—Same as 2261 except center track recording head. Net Each.............................. $234.35

Bell Model 2264 Battery Charger—115/230 v., 60 cps. With cables. 4″ x 4″ x 3½″. Net Each................... $14.85

MODEL RC-47A DISC RE-CORD-O-FONE



This dual speed disc recorder offers simplicity of operation, permanent recording, immediate playback. **Speeds:** 78 and 33⅓ rpm or 78 and 45 rpm. Compact and portable in its own single carrying case. Single control permits instant selection of all functions: Recording, playback or PA. Serves as a complete PA system. Controls permit dubbing in of voice while recording from radio or record. Visual recording-level indicator. The unit, complete with microphone, is entirely self-contained in an attractive leatherette covered case.

GENERAL SPECIFICATIONS

Power Output: 3 watts; peak power, 5 watts. **Power Consumption:** 75 watts, 117 volts, 60 cps. **Inputs:** Microphone, Radio-phono, direct external recording. **Output:** Monitor (headphones), external speaker (3.2 ohms). **Indicators:** Recording Level, Amplifier On. **Speaker:** 6″ heavy duty P.M. **Phono Equipment:** Two speed recording mechanism with magnetic cutting head and twin tilt crystal phono pick-up (dual styli). 45 rpm conversion spring that is supplied uses the 33⅓ rpm position. **Tubes:** 1-7F7, 1-7C5, 1-7Y4. **Controls:** Volume; Tone/Amplifier Power Switch; Four-Position Selector Switch (External Record, P.A., Phonograph, Microphone Record); Turntable Motor Power Switch; Turntable Speed Change Switch. **Dimensions:** 18″ deep x 16″ wide x 10″ high. Shipping Weight: 41 lbs.

Bell Model RC-47A Disc Re-Cord-O-Fone—Complete. Net Each.. $116.67

Microphones, Accessories

ASTATIC

788

888

988

A-8

M-352

DK-1

DR-10

DR-11

MODEL 788 "METRO" DYNAMIC

Wide range and rugged construction for voice and music reproduction in PA, recording and TV, indoor or outdoor. **Response:** 60-13,000 cps. **Output Level:** −55 db. Die cast alloy housing is black with brushed gold and "color touch" top trim. Omni-directional. High or low impedance by simple change. 9$\frac{11}{16}$" long x 1$\frac{3}{8}$" max. dia. On-Off switch. With desk-floor stand adapter, lavalier cord and assembly, belt clip, 20-ft. cable. Weight, 9 oz.

Model 788—Dynamic Microphone Net Each.. $\$47^{70}$

MODEL 888 "TEMPO" DYNAMIC

High fidelity and advance styling for applications in color TV, sound stage and deluxe PA systems. **Response:** 50-15,000 cps. Multi-impedance, 50-150-250-HZ. **Output Level:** −56 db. Die cast alloy housing in satin black with brushed chrome finish and "color touch" top trim. 9$\frac{7}{8}$" long x 1$\frac{9}{32}$" max. dia. Includes case, SA-8 desk-floor stand adapter, lavalier cord and assembly with belt clip and 20-ft. 2-wire shielded cable. Wt. 12 oz. $\$66^{00}$

Model 888—Dynamic Microphone. Net Each........

Model 888-S—With On-Off switch. Net Each........$69.90

MODEL 988 "VOGUE" DYNAMIC

Beauty and High Fidelity for the most exacting color TV and broadcast requirements. **Response:** 40-20,000 cps. **Output Level:** −57 db. Multi-impedance selection, 50-150-250-HZ. Black die cast housing with brushed gold and "color touch" trim. 10$\frac{3}{32}$" long x 1$\frac{9}{32}$" max dia. With case, desk-floor stand adapter, lavalier cord and assembly and 20-ft. cable. Weight, 12 oz. $\$90^{00}$

Model 988—Dynamic Microphone. Net Each.........

MODEL A-8 "FUTURA" DESK STAND

Model A-8—Use with Models 788, 888, 988. Satin black tilt-proof cast base. $\frac{5}{8}$-27 threaded adapter coupling. Net Each....$7.20

MODEL M-352 "DYNAMIKE" DYNAMIC

Low priced, wide range omni-directional microphone. **Output Level:** −56 db. **Response:** 50-10,000 cps. Black diecast housing with chrome trim. 1$\frac{3}{4}$" across top. Weight, 7$\frac{1}{4}$ oz. $\$22^{50}$

Model M-352—Low-Z. With adapter, 18-ft. cable. Net.

Model M-350—Hi-Z. With adapter, 18-ft. cable. Net..$23.97

Either Model with switch, add to Net...................$1.65

MODEL DK-1 CRYSTAL

Non-directional. Hi-Z. Excellent response with rising characteristics, 2000 to 5000 cps. **Output Level:** −55 db. Crystal has moisture-proof coating. 5$\frac{9}{16}$" long x 1$\frac{13}{16}$" max dia. $\$13^{20}$

Model DK-1—Crystal Microphone. 10-ft cable. Net Ea.

Model DK-1-S—With Switch. Net Each.............$14.82

MODEL DR-10 "SYNABAR" CRYSTAL

Uni-directional with special sintered metal filter that attenuates sound 15 db lower from rear. **Response:** 50-10,000 cps. with selector switch for choosing best pick-up characteristics. **Output:** −54 db. Crystal protected from moisture. $\$22^{35}$

Model DR-10—Crystal Microphone. Net Each........

Model DR-10-S—Same, with switch. Net Each.......$23.97

MODEL DR-11 "DYNABAR" DYNAMIC

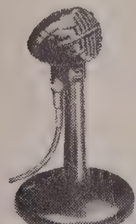
Uni-directional with sintered filter. Impedance selector for 50, 200, 500 and HZ. Dynamic element floated in rubber. **Response:** 50-10,000 cps. **Output Level:** −54 db. 18-ft shielded cable.

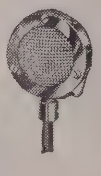
Model DR-11—Dynamic Microphone. Net Each.. $\$40^{80}$

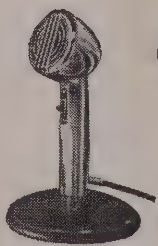
Model DR-11-S—Same with switch. Net Each.......$41.70

54M3

D-104


JT-30


L-1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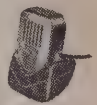
DN-50

T-3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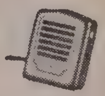
10M5


M-301

M-101

MODEL 54M3 CRYSTAL

Miniature for recorder, PA, conference, etc. **Output Level:** −51 db. **Response:** 30-10,000 cps, gradual rise from 1000 to 6000. Non-directional in base. Chocolate brown die cast base, gold plate finish grille. With base, 5-ft. cable, protector. $\$7^{65}$

Model 54M3—Crystal Microphone. Net Each..........

D-104 SERIES CRYSTAL AND CERAMIC

High output (crystal −45 db, ceramic −58 db) for close talking. **Response:** 30-7500 cps. Reduced RF feedback. Yoke driven, bridge mounted crystal protected against moisture. Barometric comp. Shock-proof. Chrome finish. With interchangeable plug and connector, 5-ft. cable and protector. $\$14^{76}$

Model D-104—Crystal Microphone. Net Each........

Model G-D-104—Same, with G-Stand. Net Each.....$22.59

Model D-104-C—Ceramic Microphone. Net Each..... 14.76

Model G-D-104-C—Same, with G-Stand. Net Each... 22.59

For switch, add to Net................................ 1.65

JT SERIES CRYSTAL AND CERAMIC

For amateur, PA and home recording in wide and voice range models. With cable (10-ft. for crystal, 5-ft. for ceramic), connector, wood handle, metal base. **Output Level:** crystal −52 db, ceramic −62 db. Opalescent gray with chrome grille. $\$10^{17}$

Model JT-30—Crystal Microphone. Subs. Flat. Net Ea.

Model JT-40—Crystal Microphone. Rising. Net Each.$10.17

Model JT-30-C—Ceramic Model. Subs. Flat. Net Ea... 9.69

Model JT-40-C—Ceramic Model. Rising char. Net Ea.. 9.69

MODEL L-1 LAPEL CRYSTAL

Tiny, dual diaphragm model. **Response:** 30-10,000 cps. **Output Level:** −62 db. With 15-ft. over-the-shoulder cable, lapel clip.

Model L-1—Lapel Microphone. Net Each.. $\$16^{41}$

VELVET VOICE SERIES CRYSTAL

Convertible. Ultra-smooth, velvety soft response 30-10,000 cps. **Output Level:** 52 db. Gold fin. housing handle, chrome grille, brown detachable base. 19-ft. cable. Model 241 is same but with rising characteristics 1500-5500 cps. $\$8^{37}$

Model 200—Crystal Microphone. Net Each............

Model 241—Crystal Microphone. Rising char. Net Each.$8.37

Either Model, with switch, add to Net................ .63

MODEL DN-50 "THE DYNAMIC"

General purpose. Unitary moving coil system, carefully proportioned acoustic circuit. **Response:** 50-7000 cps. **Output Level:** (DN-HZ) −55 db. Semi- or non-directional. Opalescent gray and bright chrome finish. 10-ft. cable. $\$13^{14}$

Model DN-50—Dynamic Mike. 50 ohms imped. Net Ea.

Model DN-HZ—Same, but Hi-Z. Net Each...........$17.70

Model DN-MZ—With multi-impedance selector for 50, 200, 500 and Hi-Z. Net Each.................................$23.85

Any Model with switch, add to Net.................. 1.65

MODEL T-3 CRYSTAL

For studios, intercom, amateur, PA, recording. **Response:** 30-10,000 cps. **Output Level:** −52 db. Semi- or non-directional. With connector, 15-ft. cable. All chrome finish. $\$16^{41}$

Model T-3—Crystal Microphone. Net Each..........

Model GT-3—Same with G-Stand. Net Each..........$24.24

Model T-3-C—Model T-3 with ceramic cartridge. **Output Level:** −62 db. With 5-ft. cable. Net Each.................$15.33

Any Model with switch, add to Net.................. 1.65

CARDINAL SERIES CRYSTAL AND CERAMIC

Low cost wide range microphones with attractive gold finish. Crystal models. **Output Level:** −52 db, ceramic −62 db. Models CX and CC substantially flat, CX-1 and CC-1 rising. $\$5^{85}$

Models CX or CX-1—Crystal Mike. 10-ft cable. Net Ea.

Models CC or CC-1—Ceramic Mike. 5-ft. cable. Net Ea..$5.37

M-100, M-300 SERIES CRYSTAL AND CERAMIC

Response: Crystal subs. flat 30-10,000 cps; ceramic, rising 30-8000 cps. **Output Level:** No. 100, −46 db; No. 300, −47 db; No. 101, −53 db; No. 301, −54 db. $\$4^{20}$

Model M-101—Crystal Microphone. 8-ft. cable. Net Ea..

Model M-102—Ceramic Microphone. 5-ft. cable. Net Ea..$4.35

Model M-301—Crystal Microphone, 8-ft. cable. Net Ea.. 6.00

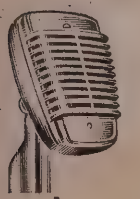
Model M-302—Ceramic Microphone. 5-ft. cable. Net Ea.. 6.30

MODEL 10M5 CARBON MICROPHONE

For mobile, ship-shore, etc. Sensitive and rugged. **Response:** 100-4500 cps. Press-to-talk DPST switch. Retracting cable 12-in. coiled extends to 5-ft. Protector. Gray finish. $\$17^{70}$

Model 10M5—Carbon Microphone. Net Each........

MICROPHONES SHURE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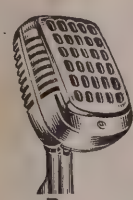
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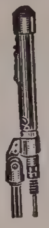
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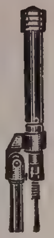
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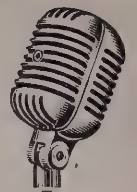
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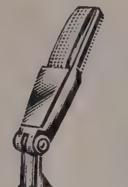
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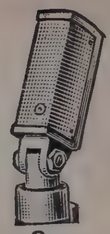
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FIG. A "SONODYNE" DYNAMIC

A rugged, high-output dynamic microphone. Acclaimed outstanding for all general-purpose use, including wire and tape recordings, public address and communications. Has wide range, peak-free frequency response, and semi-directional pickup characteristics. Features a multi-impedance switch for low, medium, or high impedance. Ideal for applications where long lengths of cable are required. Has 15′ two-conductor shielded cable. Frequency response is 60 to 10,000 c.p.s. High output of minus 53 db. Rich satin chrome case.

Shure Model "51"—Net Each........................**$28.50**

FIG. B "MONOPLEX" CRYSTAL

An extraordinary, "Feedback-Killing" crystal microphone with Super-Cardioid pickup pattern. A high output, undirectional microphone which ranks far above conventional crystal microphones. Has a 14 to 1 front-to-rear pickup ratio. Reduces pickup of random sound energy by 73%. High output of minus 54 db. New moisture-proof "Metal Seal" crystal for long operating life. Excellent for general purpose use. Built-in cable connector. Rich satin chrome finish. Has 15′ single cond. shielded cable.

Shure Model "737A"—Net Each.....................**$25.50**

FIG. C "525" CONCERT-LINE PROBE

An exceptionally fine probe microphone of broadcast quality. It features: (1) frequency response 40-15,000 cps, ±2½ db; (2) a moving coil mounted in a highly efficient magnetic structure, "Alnico V" magnet; (3) multi-impedance switch for 50, 150, 250 ohms impedance; (4) high output; (5) special "Duracoustic" diaphragm. With a 20 ft., two-conductor, rubber-covered, shielded cable with Cannon XL-3-11 connector attached; swivel adapter; adjustable lavalier assembly (cord and clip), and a belt clip assembly. Baked Bronze non-reflecting finish.

Shure Model "525"—Net Each...................**$120.00**

FIG. D "530" SLENDYNE

A probe microphone highly recommended for fine quality sound systems. It features: (1) frequency response 60-15,000 cps; (2) a moving coil mounted in a highly efficient magnetic structure, with "Alnico V" magnet; (3) dual-impedance switch for high or low impedance; (4) high output; (5) special "Duracoustic" diaphragm. Furnished with a 20 ft., two-conductor, rubber-covered, shielded cable with Cannon XL-3-11 connector attached; swivel adapter; adjustable lavalier assembly (cord and clip) and a belt clip assembly. The Slendyne has a beautiful black and gold finish.

Shure Model "530"—Net Each.....................**$66.00**

FIG. E "SMALL UNIDYNE" DYNAMIC

World-famous for high overall efficiency (40 to 15,000 cps). Ideal for highest quality P.A., theater-stage sound systems, recording, and remote broadcasting. Widely used for fixed-station use in police, fire and transportation services. Immune to abnormal atmospheric conditions and severe mechanical shock. Both models feature a Multi-Impedance switch for low, medium or high imped.

Shure Model "55S" (General purpose)—Net Each....**$45.90**
Shure Model "556S" (Broadcast)—Net Each......... **66.00**

FIG. F HIGHER FIDELITY GRADIENTS

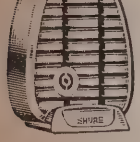
A high-fidelity gradient ribbon microphone. Bi-directional pickup pattern provides smooth peak-free response—50 to 12,000 cps. Reduces pickup of random noises by 66%. Finished in a rich, soft chrome. Both models feature a Multi-Impedance switch for low, medium or high impedance. Model "300" (40 to 15,000 cps) has a Voice-Music switch and a "Baked Bronze" non-reflecting finish. Has Cannon connector and special vibration-isolation shock mount.

Shure Model "315" (General Purpose)—Net Each....**$47.70**
Shure Model "300" (Concert-Line)—Net Each....... **81.00**

FIG. G "333" CONCERT LINE

Created for discriminating users with the most exacting professional requirements. An ultra-cardioid, unidirectional—will reduce the pickup of random noise by 73%—prevents the pickup of moving props, scuffling feet and moving "dollies". Patented "Uniphase" system. Horn-loaded ribbon transducer provides efficient, smooth response ±2½ db, 30-15,000 cps. Multi-impedance switch; voice-music switch; anti-"Pff", anti-blast filter screen; high output; sturdy, die-cast one-piece metal case; self-adjusting "lifetime" swivel; vibration-isolation unit mounted in live rubber; Cannon XL connector. Baked Bronze non-reflecting finish. 1⅛″ w., 3 9/16″ h., 1¾″ d.

Shure Model "333"—Net Each..................**$150.00**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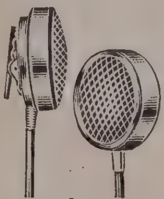
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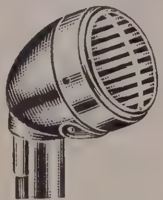
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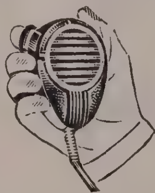
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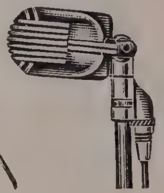
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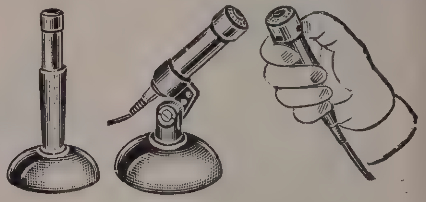

M

FIG. H "HERCULES"—CONTROLLED RELUCTANCE

Popular Controlled Reluctance hand-held unit that can also be used on a desk or stand. Provides exceptional ruggedness, clear reproduction and high output—at an amazingly low price. Recommended for announcing and mobile Public Address systems; communications; home recordings; inter-communications and for all general purpose use where humidity is the problem. High impedance obtained without transformer. Frequency response 100 to 7000 c.p.s. Has 7′ shielded cable with green metallic finish die-cast case.

Shure Model "510C"—Net Each.....................**$ 9.00**
Shure Model "510S" (with switch)—Net Each....... **10.20**
Shure Model "710A" Crystal—Net Each............ **6.57**
Shure Model "710S" Crystal (with switch)—Net Each **7.77**

FIG. I "LAPEL" CRYSTAL

Here is a popular microphone that is a favorite with lecturers everywhere. Provides high intelligibility reproduction for public address portable transmitters and all general use. Pressure actuated diaphragm-type crystal microphone. Graphoid Bimorph crystal, moisture seal. Unit weighs only 1½ ounces. Frequency response (40 to 6000 c.p.s.) accentuated for maximum intelligibility. 1⅞″ diameter. Pearl gray finish. Has 20′ shielded-single-conductor cable. Output level: minus 57 db.

Shure Model "76B"—Net Each.......................**$16.20**

FIG. J "GREEN BULLET"— CONTROLLED RELUCTANCE

Provides unusually good quality music and speech reproduction at moderate cost. Practically immune to the effects of high temperatures and humidity. Features high output, good response, high impedance without the need of a transformer. Beautiful modern metallic green finish with a plated grille. Frequency response 100 to 7000 cps. Has 7′ single-conductor shielded cable. 5⅛″-27 thread.

Shure Model "520"—Net Each......................**$11.70**
Shure Model "707A-7" Crystal—Net Each........... **10.17**

FIG. K "100" SERIES CARBON

High quality carbon microphone specially designed for mobile equipment. Adopted as a standard microphone by leading manufacturers of police transmitters. Heavy duty switch for push-to-talk performance. Coiled-cord cable.

Shure Model "101C"—Net Each....................**$16.50**
Shure Model "102C"—Net Each.................... **16.50**

"Ranger" Controlled Reluctance—Ideal for mobile communications, hams, audience participation shows, etc. Frequency response is 100 to 9000 cps. The low-impedance Model 505B is especially recommended for use with long lines.

Shure Model "505B"—Low Impedance. Net Each....**$17.70**
Shure Model "505C"—High Impedance. Net Each.... **17.70**

FIG. L 708A "STRATOLINER" CRYSTAL

Here's a year-in, year-out favorite—an expensive-looking crystal microphone at moderate cost. Features wide-range peak-free response for good reproduction of both voice and music. High output of −53 db. Placed horizontally, the 708A is semi-directional Swivel permits 90° tilting of the microphone so it can be aimed at the source of desired sound. Bimorph Crystal. Standard thread ⅝-27. Frequency response is 60 to 8000 c.p.s. Pearl gray finish. High impedance.

Shure Model "708A-7"—Net Each.................**$17.70**

FIG. M "777" SLIM-X CRYSTAL

Rugged little microphone, weighing only 6 ounces, designed for good quality voice and music reproduction. Its versatility and "Handability" make it ideal for low-cost P. A. Systems; Home Recording; Hams and General Purpose use. The "777" can be removed from either cradle or swivel—simply by lifting it out of the holder. Smooth frequency response − 60 to 10,000 cps; specially-sealed crystal element for long operating life; high impedance; output level −61 db; 7′ single conductor cable, disconnect type. Finish: rich satin chrome overall. **Note:** All Models supplied with a neck lavalier cord.

Shure Model "777"—Net Each....................**$12.60**
Shure Model "777S"—With switch. Net Each........ **13.80**
Models 777 and 777S are supplied with a cradle adapter for microphone desk or floor stand use.

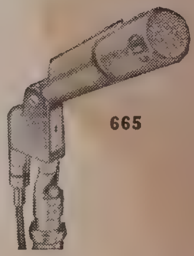
Electro-Voice Microphones

BROADCAST—TV DYNAMICS

E-V engineering brings new, versatile high-output designs in keeping with current requirements for better TV-broadcast flexibility and quality. Unique Variable "D" cardioid principle delivers greater front-to-back discrimination, ultra wide range with rugged single dynamic element. Slim-Trim omnidirectional, close tolerances.

CARDIOID UNIDIRECTIONAL MICROPHONES

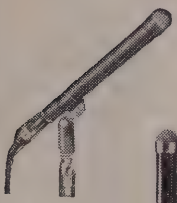
666


665

Model 666 Super Cardioid Microphone—Totally new concept in directional microphone design uses Variable D principle (variable acoustical distance between front and back openings). High discrimination against sounds from back hemisphere. Highly resistant to mechanical shock. Model 666 affords another octave of uniform HF response over that found in conventional broadcast cardioids. Permits close talking with no bass accentuation. Increases working distance over pressure microphones by factor of 1.7:1 due to reverberation reduction. Designed for operation on boom, stand or in hand. Uses only one moving element with exclusive, rugged Acoustalloy diaphragm. Response range, typical 40-15,000 cps; output −55 db. Impedance changed on internal terminal board. Wired for 50 ohms, taps at 150 and 250 ohms. Aluminum cast case finished in TV gray. Built-in Cannon UA-3 connector. Clamp-on stand mount included with ⅝"-27 thread and ½" pipe thread adapter. 20′ cable. Size 7½" long, 1¾" diameter. Net Weight, 11 oz. Net Each................**$147.00**

Model 665 Cardioid—Similar in design and function to the Model 666, but for less exacting applications. Uniform response 50-14,000 cps. Impedance 50 and 250 ohms. Recessed switch in stud permits quick selection of either impedance. Pressure-cast zinc case. Nonreflecting gray finish. Diameter, 1⅞", length 7$\frac{3}{16}$". 18′ cable. Net Weight, 1 lb., 10 oz. Net Each..**$78.00**

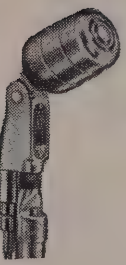
OMNIDIRECTIONAL MICROPHONES


655C

654

646

Model 655C Slim-Trim TV Dynamic—Frequency response 40-20,000 cps. Output level −55 db. Has widest range response of any microphone commercially available. Used in many laboratories as test standard. Excellent level affords high signal-to-thermal noise ratio. Pop-proof grille stops blasts. Can be used on stand, in hand or on boom. Easily concealed in studio props. Acoustalloy diaphragm. Impedance 50, 150 and 250 ohms. Impedance easily changed at internal terminal board. Cannon UA-3 connector. Clamp-on stand mount included with ⅝"-27 thread and ½" pipe thread adapter. Size, 10½" long without connector, 1" diameter. 20′ cable. Net Weight, 11 oz. Net Each..**$120.00**


635

650

Model 654 Slim-Trim Broadcast Dynamic—Frequency Response 50-16,000 cps. Output level −55 db. Recessed selector provides 50 or 250 ohms. Built-in Cannon XL-3 connector. Acoustalloy diaphragm. ⅝"-27 thread. 18′ cable. 10" long with stud, 1" diam. Net Weight, 15½ oz. TV gray enamel. Net **$57.00**

Model 635 Broadcast Dynamic—Compact, rugged, versatile. Omnidirectional. Response, 60-13,000 cps. Output level −55 db. 50-250 ohms impedance selector. Head tilts through 90° arc. Cannon XL-3 connector. ⅝"-27 thread; size, 2" x 6¼". Satin chrome finish. 18′ cable. Net Wt., 1½ lbs. Net Each..**$45.00**

Model 646 Lavalier Dynamic—For chest, desk or hand use. Neck cord and support clips supplied. Response 40-15,000 cps; output level −57 db. Choice of either 50, 150, 250 ohms impedance. Omnidirectional. Acoustalloy diaphragm. Built-in connector. Gray enamel. 30′ cable. 6¼" x 1" diam. Net Weight, less cable 7 oz. Net Each.....**$84.00**

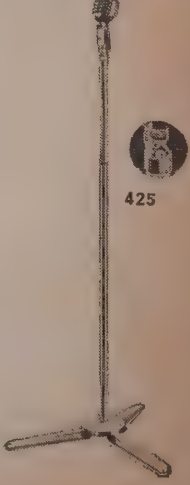
Model 650 Broadcast Dynamic—Response 40-15,000 cps. Output level −48 db. Dual-type external shock mount. 50 or 250 ohms. Tiltable head. Satin chrome finish. Cannon XL-3 connector. ⅝"-27 stand coupler. 18′ cable. Size inc. stud, 2½" x 4⅝" x 5¼". Net Wt., inc. shock mount, 3 lbs. Net Each **$90.00**

MICROPHONE STANDS

418

428

420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647
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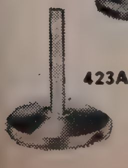
416


423A

Model 415 Reclining Desk Stand—Mounts 615, 715, 915 at 15° tilt. Satin chrome. Size 2⅝" x 2¾" x 1". Net Weight, 4 oz. Net Each........**$1.02**

Model 416 Stand—For use with 646, 647 microphones. Black rubber. Size 3⅛" diameter, 1" high. Net Weight, 2 oz. Net Each...................**$3.00**

Model 418 Desk Stand—Use with microphones using small-type stud such as Models 611, 623, 630, 635, 636, 911, and 950. Cast iron. Gray finish. Net Each...................**$9.00**

Model 418-S—With switch...**$12.00**

Model 419 Desk Stand—Similar to Model 418 but for use with microphones using large-type stud such as Models 650, 654, 726, 731, 664 and 665. Net Each...................**$9.00**

Model 419-S—With switch...**$12.00**

Model 420 Desk Stand—Heavy cast iron stand finished in TV gray. Specifically designed for use with E-V 666, 655C, 646 or microphones with 1" diameter. Clamp attachment for mounting 1" cylindrical mikes, without tools. Base holds mike in position when subjected to ordinary strain. Net Weight, 3 lbs. Net Each.................**$12.00**

Model 423-A Desk Stand—Sturdy smartly styled, round die-cast base, 5⅛" diameter. Rests firmly on rubber base buttons. Rich satin chrome. ⅝"-27 thread. Choice of 3" or 5" matching stem riser. Net Weight, 1 lb. Net **$2.70**

Model 427-A Desk Stand—Attractive, round die-cast base rests stably on desk or table. 5" stem riser. Satin chrome. Standard ⅝"-27 thread. Base diameter 4⅝". Net Weight, 10 oz. Net Ea. **$2.10**

Model 428 Touch-To-Talk Stand—Fits standard ⅝"-27 thread. Lever-type switch for relay operation or microphone On-Off—closes or opens instantly or locks in "talk" position. Satin chrome; gray plastic switch lever with locking button. 7" x 5⅛" base diameter. Net Weight, 1¾ lbs.

SPDT. Net Each.............**$9.60**

DPDT. Net Each...........**$10.35**

Model 425 Deluxe Floor Stand—Button at top gives one-hand height control from 27" to 66". Locks automatically on release. Shaft can be rotated without any adjustment device. Locking-type adjustable legs permit stand to be placed flush against wall. Modern, die-cast base. Three-leg spread 17". Net Weight, 7½ lbs. Net Each..... **$16.50**

Model 430 Utility Floor Stand—Similar to above, but with button on lower section for height adjustment from 36" to 65". Three-leg spread 17". Satin chrome extension shaft. Net Weight, 7½ lbs. Net Each..................**$10.20**

Electro-Voice Microphones

DYNAMIC MICROPHONES

CARDIOID UNIDIRECTIONAL MICROPHONES

664

Model 664 Cardioid Dynamic—Similar to Model 666 in function, but designed specifically for PA. Cardioid pattern at all frequencies. Permits close talking without "booming" or bass accentuation. Provides better discrimination against unwanted sound. Less feedback than any cardioid PA microphone built. Blast filter minimizes wind effect. Acoustalloy diaphragm shielded from dust and magnetic particles. Response 60-13,000 cps. Output −55 db. On-off switch. 150 ohm and high impedance. Impedance changed by moving one wire in MC4 cable connector. Pressure cast case. Chrome finish. 18′ cable. Size 7³⁄₁₆″ long, less stand coupler, 1⅞″ diameter. Net Weight 1 lb. 10 oz. Net. .**$47.70**

EV Mechanophase principle provides wide-range front pick-up—dead at rear. Solves difficult sound pick-up problems—assures finer, clearer reproduction of voice and music—simplifies microphone and speaker placement—increases pick-up range—permits higher volume levels. Tiltable head. Satin chrome. ⅝″-27 thread, 18′ cable.

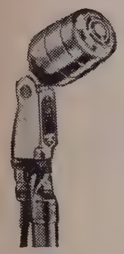
Model 726 Dynamic (Cardyne I)—Response 50-8000 cps. Output level −55 db. Hi-Lo impedance selector, built-in MC-3 connector, On-Off switch. Net Weight 2 lbs. 6 oz. Net Each. **$45.00**

Model 731 Dynamic (Cardyne II)—Flat response 40-10,000 cps, output level −52 db. Dual-type external shock mount. Hi-Lo impedance selector. Built-in Cannon XL-3 connector. On-Off switch optional. Net Wt. 2½ lbs. Net. .**$57.00**

731

OMNIDIRECTIONAL MICROPHONES

636


630

Model 636 "Slimair" Dynamic—Exceptionally fine for PA, recording and general use. Response 60-13,000 cps, output −55 db. Pop-proof head. Alnico V. Wide pick-up range. On-off switch optional. Satin chrome finish. Tiltable head. Built-in MC-4 connector. ⅝″-27 thread. 18′ cable. 10¼″ long including stud. Hi-Z or Lo-Z by changing wire in connector. Net Each **$42.00**

Model 636G—Gold Finish. Net Each **48.00**

Model 630 High Fidelity, High-Output Dynamic—Famous for quality at low cost. Response 60-11,000 cps; output level −55 db. Unaffected by heat or humidity. Acoustalloy diaphragm. Tiltable head. Built-in MC-3 connector. On-Off switch. Satin chrome finish. Available in 50, 250 ohms, or Hi-Z. Size 2″ x 6¼″. 18′ cable. Net Weight 1 lb. Net Each...................**$28.20**

647

Model 647 PA Lavalier Dynamic—Small, rugged; for chest, desk or hand use. With neck cord, support clips and 18′ cable. Response 60-13,000 cps; output level −57 db. Available in 150 ohms or Hi-Z. Acoustalloy diaphragm. Built-in connector. Black anodized finish. 5″ long, 1″ dia. Net Weight less cable, 4 oz. Net Each..............**$48.00**

623

Model 623 Slim Dynamic—Ideal for PA, recording and general use. Use on stand or in hand. Omnidirectional. Response 65-9000 cps; output level −56 db. Hi- or Lo-Z by changing wire in connector. Pressure cast; satin chrome finish. Tiltable head. On-Off switch, Built-in MC-4 connector. ⅝″-27 thread. 7½″ x 1⁵⁄₁₆″. 18′ cable. Net Weight 15 oz. Net Each...................**$29.70**

611

Model 611 "Mercury" Dynamic—Traditional styling, fine performance for general sound pick-up. Response 50-8000 cps; output level −55 db. Nondirectional. Acoustalloy diaphragm. Tiltable head. On-Off Switch. Built-in MC-3 connector. ⅝″-27 thread. Satin chrome finish. Available in 50, 150, 250 ohms or Hi-Z. Lo-Z balanced to grd. 2⅜″ x 3⅛″ x 6¼″ inc. stud. 18′ cable. Net Weight 1¼ lbs. Net Each...........**$22.50**

605

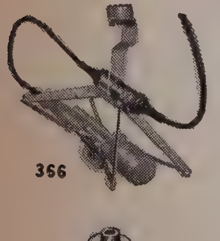
Model 605 Durable Dynamic—For dependable, general purpose use. Response 65-7500 cps. Output level −55 db. Nondirectional, becoming directive at higher frequencies. Acoustalloy diaphragm. Head at 22° fixed tilt. Built-in MC-1 connector. Satin chrome. Choice of 50, 250 ohms or Hi-Z. Low impedance not balanced to ground. Net Weight 12 oz. With 18′ cable. Net Each.....**$17.70**

915

615 on 415

Model 615 "Century" Dynamic—Incomparable for paging, recording, amateur, or any low-cost applications. Can be used in hand, on table, on stand or overhead. Nondirectional. Acoustalloy diaphragm. Withstands extreme temperature, humidity, corrosion and shock. Response 100-6000 cps. Output −55 db. 50 ohms or Hi-Z. Lo-Z not balanced to ground. 5′ cable. Pressure cast case, satin chrome. Rugged, lightweight. Size 3″ x 2⁹⁄₁₆″ x 1″. With ⅝″-27 thread stand adapter. AC-DC insulated. Net Each...................**$11.70**

MICROPHONE ACCESSORIES

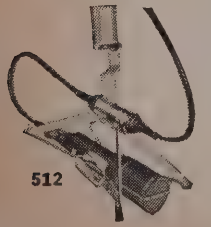

366

Model 366 Suspension Shock Mount—Extremely light boom suspension shock mount. Combined weight of 366 and 666 microphone is 17 oz. Designed for use with 666 microphone. No tools required for installing mike. Pigtail cable connection with UA-3 connectors provides cable loop isolating boom shock noises. Made for any microphone with 1″ diameter. Net Each.............**$24.00**

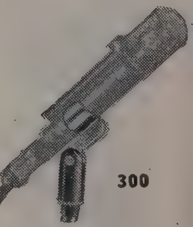
345

Model 345 Shock Mount—Dual-type external shock mount prevents reproduction of external shocks and stand vibrations. Permits tilting microphone head. ⅝″-27 thread. Easily attached or removed. Satin chrome. 1½″ x 3⅞″. Net Weight 10 oz. Net Each.......**$7.80**

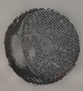
Model 346 Shock Mount—Designed specifically for use with Model 666 microphone. Similar in every feature to Model 345, but constructed for 11 oz. microphone. Net Each.........**$7.80**


512

Model 512 Wind Screen—Designed specifically for use with Model 666 microphone. Minimizes wind effect on boom operation or when used outdoors. Made of strong black bemberg. Net Weight, 2 oz. Net Each...............**$6.00**


300

Model 300 Detachable Microphone Clamp—Light weight adapter fits any cylindrical microphone with 1″ diameter. Provides positive means to mount on stand. Easily installed without tools with finger operated clamp. Rubber insert prevents slippage on mike. 1″ pipe thread adapter for ⅝″-27. Net Each...**$6.00**


335

Model 335 Blast Filter—Acoustically treated, scientifically curved grille stops wind and breath blasts. Does not affect frequency response. Easily fits over head of EV Models 630, 635, and 605 mikes. Satin chrome finish. Net Each..**$3.30**

502

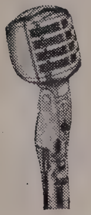
Model 502 Matching Transformer—Designed for mounting on amplifier chassis or in series with mike line. Transformer windings have low distributed capacity and are amply shielded against inductive hum by a shield inside pressure cast case. Designed for 50, 250 and 500 ohms—to Hi-Z. Broadcast fidelity. Response 40-20,000 cps ±1 db for speech or music. MC-4 input connector. Shielded against hum. Net Each.....**$9.00**

Electro-Voice Microphones

CRYSTAL AND CERAMIC MICROPHONES

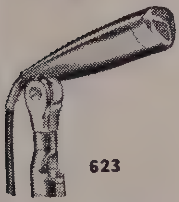
950

Model 950 Cardax Crystal—First high level cardioid crystal mike with Dual Frequency Response—Flat response for wide range pick-up (output −57 db) or rising characteristic for extra crispness (output −50 db. Hi-Z; fully enclosed Metal Seal crystal Built-in MC-1 connector. On-Off switch. Size 2½″ x 2⅞″ x 6¼″, inc. stud. Net Weight 1 lb., 2 oz. Net Each.................. **$25.50**

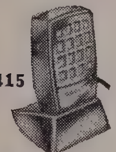

911

Model 911 "Mercury" Crystal—Same smart design and fine performance as Model 611. Response 50-8000 cps. Output −50 db. Metal Seal Crystal. MC-1 connector. Hi-Z. 18′ cable. Net Weight 1¼ lbs. Net Each........... **$16.50**

Model 926 Slim Crystal—Level and response ideal for general purpose use. Response 70-8000 cps; output level −60 db. Hi-Z. Pressure cast case, satin chrome finish. Tiltable head. ⅝″-27 thread. 6¾″ x $1\frac{5}{16}$″. 18′ cable with integral strain relief. Net Weight 11 oz. Net Each.................. **$14.70**


623

Multi-Purpose Century—Use in any position—in hand, on table, on stand or overhead. Nondirectional. Pressure cast, satin chrome finish case. Rugged, lightweight. 3″ x $2\frac{3}{16}$″ x 1″. With ⅝″-27 adapter. AC-DC insulated.


915 on 415

Model 915 "Century"—Moisture sealed crystal. Response 60-7000 cps. Output −50 db. Hi-Z. 5′ cable. 10 oz. Net Each.................... **$6.75**

Model 915-S. With switch. Net **$7.80**

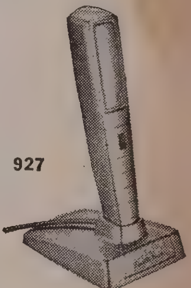
Model 715 "Century" Ceramic—Ceramic element. 80-7000 cps, output −59 db. Hi-Z. 5′ cable. 6 oz. Net Ea. **$6.75**

920

Model 920 "Spherex" Crystal—All-direction pick-up. Response 60-7000 cps; output level −50 db. Strong wire-mesh head acoustically treated for wind and moisture protection. High capacity, moisture sealed crystal. Hi-Z. Satin chrome. ⅝″-27 thread. Diam. 2¼″. 18′ cable. Net Weight 8 oz. Net. . **$13.50**

924

Model 924 Lavalier Crystal—Unique crystal lavalier for chest or hand use. Supplied with neck cord, support clips and 18′ cable. Satin chrome finish. Wire mesh head acoustically treated for wind and moisture protection. Output −60 db. Response 70-8000 cps. Hi-Z. $3\frac{5}{32}$″ x $1\frac{7}{32}$″. Cable has integral strain relief. Net Weight 8 oz. Net Each. . . **$10.80**


927

Model 927 Slim Crystal—A new approach to the design of crystal microphones for PA recording and general use. Response 50-6000 cps. Output −50 db. High impedance only. 5′ cable. Available with or without "on-off" switch. Brushed chrome and contrasting gray finish. Size 7⅞″ x 1½″ x 1¼″. Supplied with attractive stand. Net Weight less cable, stand, 9 oz. Net Each......... **$9.90**

Model 927S—With switch.
Net Each.................. **$10.95**

912

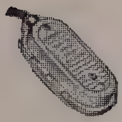
Model 912 Crystal—Low cost crystal microphone. Fits need of limited PA, home recording, paging and general use. Handheld. Moisture sealed crystal. Response 60-7000 cps. High output −50 db. Hi-Z. Attractive gray Styron case. Size 3″ x 2¼″ x 1⅜″. 5′ cable. Net Weight 4 oz. Net Each........ **$4.95**

DIFFERENTIAL AND SPECIAL PURPOSE MICROPHONES

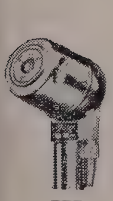
622SKK

Model 622SKK Dynamic Handset—For paging, intercom and communications. Light, sturdy bakelite, 150-ohm magnetic receiver with response 200-4000 cps. Switch closes mike and relay circuit. Response 100-6000 cps, output level −55 db. Impedance 250 ohms. 5′ 5-conductor cable. Net Each....... **$46.80**

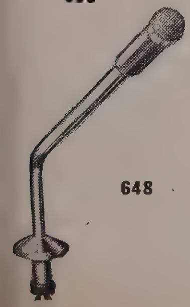
Model 625SKK Dynamic Differential Handset Microphone—Noise-cancelling microphone designed for use where background noise is at high level. Enables user to speak in a normal voice. Appearance and characteristics similar to Model 622SKK. Supplied with five-conductor, unshielded cable. DPST switch also will handle relay or other remote control in addition to turning on mike. Press button to talk. Size 9″ x 3″ x 2⅝″. Net Weight, 1¾ lbs. Net Each.... **$51.00**


805

Model 805 Contact—For guitar, banjo, etc. Hi-Z. Sealed crystal. Chrome finish. 15′ cable. Net Each.......... **$11.85**


606

Model 606 Differential Dynamic—Close-talking, noise-cancelling. Response 100-6000 cps. Output (at ½″) −55 db. Acoustalloy diaphragm. Head at 22° fixed tilt. ⅝″-27 thread. Built-in MC-1 connector. Satin chrome. 2″ x 3¼″ x 2½″ inc. stud. 50, 250 ohms or Hi-Z. Low impedances not balanced to ground. 18′ cable. Net Each............. **$27.00**


648

Model 648 Intercom Microphone—For applications where boom-type mounting is desired. Many different mounts available. Response 40-10,000 cps. Output −55 db. Choice of 50, 150, 250-ohm impedance. Omnidirectional. Acoustalloy diaphragm. Nonreflecting gray. Net Each.................. **$39.00**

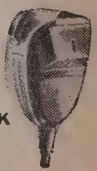
600D

Model 600D Dynamic Mobile-Mike—Lightweight, hand-held, extra-rugged. Output −55 db. Press-to-talk switch. Acoustalloy diaphragm. 2¼″ x 2″ x 4″. 50, 250 ohms or Hi-Z. 5′ cable. Net Weight less cable 8 oz. Net Ea. **$23.10**

Model 600DL—Similar to 600D, including locking switch. Net Each. . **$24.00**

Model 210KK Carbon—Similar to Model 600D but single-button carbon. Output −50 db. Press-to-talk switch. 5′ coiled cord. Net Each...... **$19.50**

Model 602 Differential Dynamic—Similar to 600D but close-talking, noise-cancelling. Net Each......... **$29.70**


205KK

Model 205KK Differential Carbon—Close-talking, noise-cancelling, single button carbon. Maximum intelligibility under high ambient noise. Blastproof, waterproof, shock resistant. Output at ¼″ −50 db. Black phenolic case. Press-to-talk switch. Mounting bracket. 5′ coiled cord. Size 2¼″ x 2¼″ x 4″. Net weight less cable 8 oz. Net Ea. **$25.50**

Model 205STCKK—CAA Type approved certificate No. 1040 with coiled cord. Net Each.............. **$32.40**

Model 205STCKKP—Similar to above with WE-309 plug. Net Each. **$35.25**

208

Model 208 Differential Carbon—Single button noise-cancelling carbon. Blastproof. Press-to-talk switch. Output −50 db. 5′ cable. Size 2¼″ x 1½″ x 1⅛″. Net Weight less cable 3 oz. Net Ea. . **$9.90**

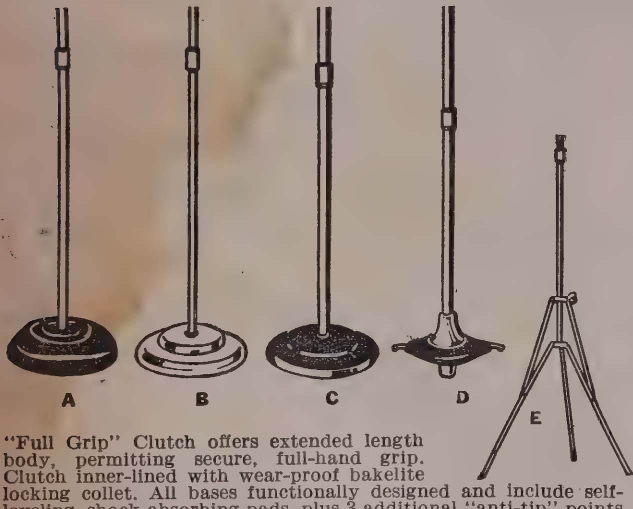
600TR

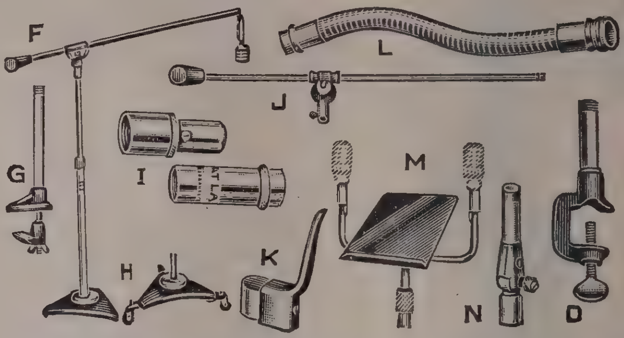
Model 600TR Microphone—Has compact, one-stage transistor amplifier built into case. Complete circuit including transistor, transformers, and associated equipment. Spiralcord, four-wire lead, press-to-talk switch may also actuate relay to control transmitter. Same sensitivity as carbon mike without change in auxiliary equipment. Output −21 db. Amplifier power gain approximately 34 db. Size 2¼″ x 2″ x 4″. Black phenolic case with mounting bracket, 5′ cable. Net Weight less cable 13 oz. Net Each.. **$48.00**

Model 602TR Microphone—Similar in type and appearance to Model 600TR, but designed for close-talking, noise-cancelling work. Speech is clear, crisp, distinct. May be used to replace carbon microphone with no change in auxiliary equipment. Net Weight less cable 13 oz. Net Each.. **$54.00**

Mike Stands, Projector

ATLAS SOUND MICROPHONE STANDS





"Full Grip" Clutch offers extended length body, permitting secure, full-hand grip. Clutch inner-lined with wear-proof bakelite locking collet. All bases functionally designed and include self-leveling, shock-absorbing pads, plus 3 additional "anti-tip" points between pads. Tube assemblies are "super-chrome" plated. All models terminate in ⅝″-27 machined thread.

Atlas No.	Fig.	Base Finish	Height, Adjust.	Base Diameter	Wt. Lbs.	Net Each
MS-10C	A	Gray Shrivel	35″-64″	10″	9	$ **5.85**
MS-12C	A	Gray Shrivel	35″-65″	10″	12	**6.30**
MS-11C	B	Full-Chrome	35″-65″	10″	12	**7.80**
MS-20*	C	Gray Shrivel	37″-67″	12″	15	**9.30**
MS-25*†	D	Chrome & Gray	37″-67″	17″	24	**13.50**
CS-1#	E	Cadmium plate	23″-62″	Collapsible	5	**9.60**

*⅞″ telescoping tube, 1⅛″ base tube. †Features "Safety Air Lock Cushion" which prevents any accidental or sudden slippage of telescoping section which is at all times "cushioned on air" and the controlled escapement of air will only permit a slow, smooth and quiet collapse. #Collapses to minimum of 23″.

BS-36 Professional Boom Stand (Fig. F)—All advantages of "Floating Action" plus secure and dependable locking adjustment. Features "Air-Lock Cushion" and new gyromatic swivel joint at mike end of boom. Base casting equipped with "domes of silence". Boom length 72″, adjustable vertically from 48″ to 72″. All tubular sections super-chrome plated. Modern base. Shpg. Wt., 33 lbs. Net Each.................................. **$36.00**

BS-36W Mobile (Fig. H)—Identical to Model BS-36 except for ball bearing hard rubber swivel caster base. Net Each..**$40.50**

BC-1 Bracket Clamp (Fig. G)—Usable with BB-1, GN-13, etc. Can be removed and top flange bolted into position. Chrome tube, 6″ long. ⅝″-27 thread. Net Each........ **$2.10**

SO-1 "Snap-On" Microphone Attachment (Fig. I)—Permits any mike to be attached to or removed from any floor stand instantly, without threading. Ball bearing spring sleeve attachment; one section attached to mike, other to stand. Net Each......**$1.65**

BB-1 "Baby Boom" Attachment (Fig. J)—Easily attached to any mike stand and locked in any position. Boom length, 32″, chrome plated. Castings in gun metal shrivel. ⅝″-32 threads. Shpg. Wt., 3½ lbs. Net Each.......................... **$4.50**

CH-1 Cable Hanger (Fig. K)—Proven necessity on every mike stand. Fits all tubes, ⅞″ to 1¼″ diam.; attached and removed by 1 screw. Chrome finished. Net Each........ **$1.50**

GN-13 Flexible Goose Neck (Fig. L)—Attach to any stand or fixture. Ends have ⅝″-27 male and female threads. 13″ long. Polished chrome finish. Net Each.................. **$1.65**

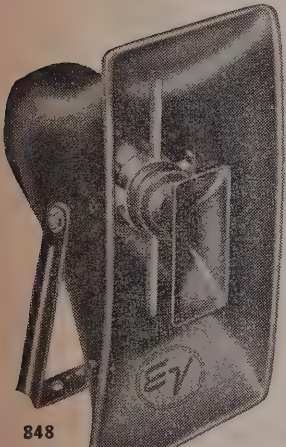
GN-19—Same as above, except 19″ long. Net Each......**$2.25**

TB-1 Duplex Mike Mount (Fig. M)—Use any 2 mikes on a single stand. Desk attachment and mike support arms detachable. Finishes in chrome and cadmium. Molded composition desk, 9″ x 11″. Shpg. Wt., 2½ lbs. Net Each............ **$6.00**

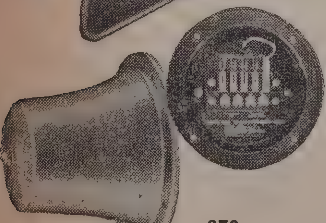
SW-1 Gyromatic Swivel (Fig. N)—Permits any mike to be adjusted and locked into any position on any floor or desk stand. Super chrome finish. ⅝″-27 male and female threads. Net Each.. **$2.40**

SK-1 Sky Hook (Fig. 0)—Fastens securely to ledges, round pipes, stanchions. Has ⅝″-27 thread for any mike. Casting finish gun metal shrivel. 3″ long chrome tube. Net Each.. **$2.10**

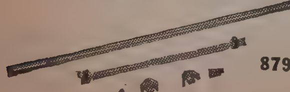
ELECTRO-VOICE MODEL 848
COMPOUND DIFFRACTION PROJECTOR



848



876



879

Unique and exclusive Electro-Voice Model 848 speaker system for improved public address provides guaranteed increase of articulation index for speech reproduction and 2½ octaves increased range for music. Compound diffraction principle assures much greater sound dispersion; uncompromised efficiency; construction is virtually indestructible. Design is so superior to conventional re-entrant PA horns that there is no basis for direct comparison of performance. A fundamentally new concept, the Model 848 utilizes two coaxially mounted horns working from opposite sides of a single diaphragm.

Each horn is designed for optimum reproduction within its own range, providing uncompromised response, plus or minus 5 db to 11,000 cps. Low end response is augmented by 100 cps horn taper which insures at least ½-octave added bass over that possible from larger, conventional re-entrant projectors. Articulation index at least 20% superior to re-entrant horns. Polar distribution pattern exceeds 120° at all frequencies up to 5000 cps. Highest sensitivity and power handling on basis of distributed signal providing superior coverage of listening area with fewer units and at far less cost.

Molded of indestructible glass fibers for extra strength and improved acoustic properties. Edge-wise wound voice coil assembly uses durable phenolic glass cloth diaphragm. Entire unit weatherproof, splash proof and blast proof. Drain holes permit subsequent operation after complete immersion. Conservatively rated at **25 watts.** 16 ohms impedance. Finished in attractive gun-metal gray. Two mounting positions for hang-up bracket. Can be installed horizontally or vertically. **Dimensions:** 10½″ wide at mouth, 20⅛″ high, 20″ deep overall. Weight: Net, 12 lbs.; Shpg., 15 lbs. **$41.70**
Electro-Voice Model 848—Net Each

726-55A

25 WATT LINE MATCHING TRANSFORMER MODEL 876

In protective case for mounting on rear of Model 848 System. Primary taps for 25, 10, 15 and 2.5 watts with 70-volt line. Impedance taps of 45, 200, 500, 1000 and 2000 ohms. Transformer bypasses frequencies below Model 848 Horn cutoff. Case extends 3½″ behind Projector when mounted. 5¼″ maximum diameter. Wt.: Net, 3 lbs.; Shpg., 4 lbs. **$9.90**
Electro-Voice Model 876—Net Each..

LINE MATCHING TRANSFORMER MODEL 877

Same as Model 876, but with added full-range thermal bimetallic relay for maximum protection against overload. Size: same as Model 876. Weight: Net, 3 lbs.; Shpg., 4 lbs. **$10.50**
Electro-Voice Model 877—Net Each

BASS AND THERMAL OVERLOAD PROTECTOR MODEL 878

Prevents distortion and excessive diaphragm excursion due to frequencies below Model 848 Horn cutoff. Automatically reduces power to driver when 25 watt limit is exceeded. Mounted in case duplicate of Model 876 Transformer. Weight: Net, 3 lbs.; Shipping, 4 lbs. **$9.90**
Electro-Voice Model 878—Net Each

JOINING KIT MODEL 879

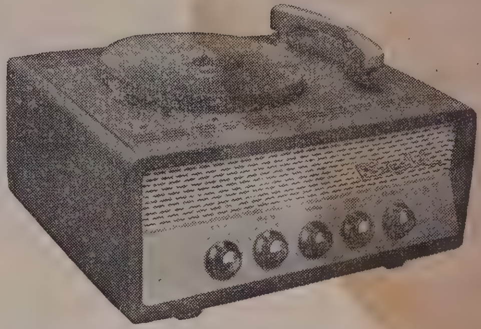
Required for fastening multiple projectors together in any array; use one joining kit Model 879, for each additional horn. Weight: Net, 8 oz.; Shipping, 1 lb. **$1.65**
Electro-Voice Model 879—Net Each..

Mobile Amplifiers by BELL SOUND SYSTEMS

NEW 25 WATT 115/12/6 VOLT AC-DC MOBILE AMPLIFIER MODEL 5625

Always ready for any of three power sources; operates equally well on 115 v. AC, 6 or 12 v. DC. Tone Control with 12 db treble boost, 25 db treble cut. **Improved regulation** as per RETMA specs, within 3 db increase in output with load removed. **Distortion** less than 3% for rated output. **Record player models** have ceramic type cartridge and two phono inputs, one on rear panel for external phono or tape player. **Built-in phono preamp** with proper impedance match for ceramic cartridge. Shock-mounted vibrator, new standard locking mike input connectors, all output impedances available from screw terminals on rear panel, "Pigtail" for selection of proper impedance. Two keyed external speaker plugs, sockets for plug-in low impedance transformers on all mike inputs, standardized module type, mike preamps using new 5879 low-noise, low-microphonic input tube. **Power Output:** 25 watts; peak, 40 watts. **Freq. Response:** 30 to 20,000 cycles ±2 db. **Gain:** Mike channels, 120 db; phono, 87 db. **Hum Level:** 60 db below rated output. **Input Imped.:** Mike channels 2.2 meg.; Tape, 2 meg.; Phono, 2 meg. (50 or 200 ohms with transformer). **Inputs** (4): Two mike, one phono, one tape. **Controls** (6): Two mike volume, one phono volume, one tone with power switch, one standby switch, one phono motor switch. **Output Imped.:** 4, 8, 16 and 500 ohms and 70 volts constant voltage tap. **Power Consumption:** 115 watts on 117 volt 60 cycles; 24 amperes on 6 volt DC; 12 amperes on 12 volt DC. **Tubes** (8): 2-5879; 2-12AX7; 2-6L6GB; 2-6AX5GT. 13″ deep, 17″ wide, 9″ high. Weight, approximately 40 lbs.

Bell Model 5625-M—With single-speed phono-top. List Price...... **$229.50**
Mode. 5625-M3—With three-speed phono-top. List Price.......... **$239.50**
Model 5625-ML—Without phono-top. List Price.................. **214.50**
Model 2276 6-Volt DC Cable—7′ long, complete with plug and battery clip.



Model 2272 12-Volt DC Cable—7′ long, complete with plug and battery clip. **Write For Price.**
Model 2274 Transformer—Plug-in type, low-Z mike transformer, 50/200 ohms. **Write For Price.**

30 WATT MOBILE AMPLIFIER—MODEL 3728-MB
(Not Illustrated)

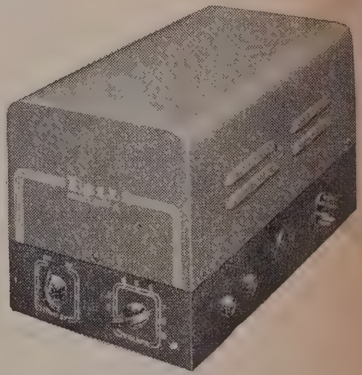
The "Moto-Master" combines a 30-watt amplifier with a phono-pickup of new design that plays all 12″ and smaller records. High fidelity; improved wide range tone controls; beam power output tubes; and two microphone inputs with separate volume controls. Turntable speed of 78 r.p.m. New type crystal pickup.

SPECIFICATIONS

Power Output—30 watts at less than 5%. Peak Power 45 watts.
Frequency Response— ±2 db. 50 to 14,000 cycles.
Overall Gain—Microphone Channels 120 db; phono, 84 db.
Hum Level—60 db. below rated output; —58 db. on DC.
Inputs—2 microphone; 1 phonograph.
Input Impedance—Microphone channels 10 meg; phono, 1 meg.
Controls—2 Microphone Volume Controls; 1 Phono Volume Control; 1 Bass Tone Control; 1 Treble Control with Power switch; 1 stand-by switch; 1 phono OFF-ON Switch.
Output Impedance—2.5; 4; 8; 16; 250; 500 ohms, 70 volt tap
Power Consumption—27 amp., 6 volts DC; 120 watts; 117 volts; 60 cycles.
Tubes—1-7Y4; 2-7Z4; 3-7B4; 1-6SL7GT; 2-6L6G.
Dimensions—16½″ deep; 10″ high; 16½″ wide.
Shipping Weight—60 lbs.
Model 3728-MB—List Price...................... **$304.95**

6 WATT MOBILE AMPLIFIER—MODEL 3706-MB

- **PHONOGRAPH AND MICROPHONE INPUTS**
- **CHASSIS REMOVABLE FOR SERVICING**
- **FITS UNDER MOST DASHBOARDS**
- **BATTERY STAND-BY SWITCH**

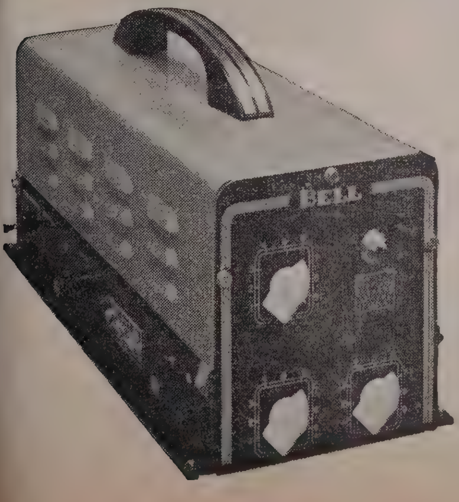


A compact, rugged and efficient low wattage amplifier. Especially designed for use by Municipal Police and Fire Departments, Safety Patrols, Traffic Control, and outdoor audible advertising. The tubes and vibrator can be inspected or changed without disturbing the installation because the chassis and the front panel are so constructed that they easily slide out of the case. It will operate on 6 volts DC or 117 volts 60 cycles and is provided with a standby switch to conserve battery drain. It comes complete with two cables. Any high impedance microphone can be used with this amplifier.

SPECIFICATIONS

Power Output—6 watts at less than 5%. Peak Power 8 watts.
Frequency Response—Plus or Minus 2 db., 60 to 15,000 cycles per second.
Overall Gain—Microphone Channel 112 db.; Phono Channel 75 db.
Hum Level—60 db. below rated output.
Inputs—1 microphone; 1 phonograph.
Imput Impedance—Microphone Channel 10 meg.; Phonograph Channel, ½ meg.
Controls—1 microphone and Phono Volume Control with Power Switch; 1 battery saver stand-by switch.
Output Impedance—4; 8; 15 ohms.
Power Consumption—45 watts; 117 volts; 60 cycles; 8 amperes; 6 volts D.C.
Tubes—1-6SJ7; 1-6SN7GT; 1-6L6; 1-6X5GT.
Dimensions—10″ deep; 6½″ high; 5½″ wide.
Shipping Weight—15 lbs.
Model 3706-MB—List Price...................... **$90.95**

10 WATT AMPLIFIER—MODEL 3710-B



- **EXTREMELY PORTABLE**
- **MODERN COMPACT DESIGN**
- **PUSH PULL OUTPUT**
- **THREE INPUT CIRCUITS**
- **RUGGED CONSTRUCTION**
- **EASILY REMOVABLE TOP**
- **INVERSE FEEDBACK STABILIZER**

A practical 10-watt amplifier ideal for many uses. Incorporates beam power, push-pull output tubes. Harmonic distortion is decreased and the amplifier is stabilized by inverse feedback. Two volume controls permit the operator to mix the microphone and phonograph or instrument. The maximum in portability.

SPECIFICATIONS

Power Output—10 watts at less than 8%. Peak power 12 watts. **Frequency Response**—±2 db, 40 to 10,000 cps. **Overall Gain**—Microphone Channels, 108 db; Phono Channel, 70 db. **Hum Level**—60 db below rated output. **Inputs**—1 Microphone; 1 Phonograph; 1 Instrument.
Power Output—10 watts at less than 8%. **Peak Power** 12 watts.
Frequency Response—±2 db, 40 to 10,000 cycles.
Overall Gain—Microphone Channels, 108 db; Phono Channel, 70 db.
Hum Level—60 db below rated output.
Inputs—1 Microphone; 1 Phonograph; 1 Instrument.
Input Impedances—Microphone and Instrument channels, 10 megs. Phono channel, 1 meg.
Controls—1 Phono Volume Control; 1 Microphone Volume Control; 1 Tone Control with AC switch.
Output Impedance—4, 8 and 16 ohms.
Power Consumption—80 watts, 117 volts, 50-60 cycles.
Tubes—1-6SJ7, 1-6SL7GT, 2-6V6GT, 1-5Y3GT.
Dimensions—14″ deep, 7¾″ high, 6¼″ wide.
Shipping Weight—14 lbs.
Model 3710-B Amplifier—List Price...................... **$80.25**

124-55A

Standard Amplifiers

15 WATT STANDARD AMPLIFIER MODEL 3715B

THREE INPUT CIRCUITS • ILLUMINATED CONTROL PANEL • BEAM POWER OUTPUT TUBES

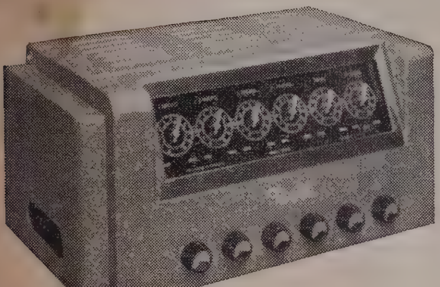
A fine performing, versatile, 15-watt amplifier. Utilizes push-pull beam power output tubes and an inverse feedback to reduce total distortion. Three inputs with separate volume controls permit simultaneous mixing of two microphones and a phonograph. Standard top can be easily replaced with a phono top accessory, either single speed (Model 2196) or three speed (Model 2197), making the phonograph an integral part of the amplifier.

SPECIFICATIONS

Power Output: 15 watts at less than 5%. Peak power, 18 watts. **Frequency Response:** 30 to 15,000 cycles, ±2 db. **Gain:** Microphone channels, 120 db; phono channel, 81 db. **Hum Level:** 65 db below rated output. **Input Impedances:** Micro channels, 3 megs; phono channel, ½ meg. **Controls:** 2 micro volume; 1 phono volume; 1 tone with AC switch. **Output Impedances:** 2.5, 4, 8, 16, 250 and 500 ohms, 70 volt constant voltage tap. **Power Consumption:** 100 watts, 117 volts, 50-60 cycles. **Tubes:** 2-6AU6; 1-6SF5; 1-6N7; 2-6V6GT; 1-5U4G. **Dimensions:** 11½" deep, 8" high, 16½" wide. **Shipping Weight:** 32 lbs.

Bell Model 3715B Standard Amplifier—List Price.................... **$119.85**

25 WATT STANDARD AMPLIFIER MODEL 3725B



An eight tube version of one of Bell's most popular units, this model incorporates several new design features, including an additional microphone input. Each of the three microphone inputs and the phonograph input has a separate volume control. Bass and treble tone controls are also separate. Easy-to-read, sloping, lighted control panel. Wide range of output impedances permits matching to any speaker load.

SPECIFICATIONS

Power Output: 25 watts at less than 5%. Peak power, 33 watts. **Frequency Response:** 30 to 18,000 cycles, ±2 db. **Gain:** microphone channels, 122 db. Phono channel, 80 db. **Inputs:** 3 microphone; 1 phonograph. **Hum Level:** 65 db below rated output. **Input Impedances:** Micro channels, 3 megs; phono channel, ½ meg. **Controls:** 3 micro volume; 1 phono volume; bass; treble with AC switch. **Output Impedances:** 2.5, 4, 8, 16, 250 and 500 ohms, 70 volt constant voltage tap. **Power Consumption:** 150 watts, 117 volts, 50-60 cycles. **Tubes:** 3-6AU6; 1-6SF5; 1-6N7; 2-6L6G; 1-5U4G. **Dimensions:** 11½" deep, 8" high, 16½" wide. **Phono Tops:** Standard top can easily be replaced with single ot three speed turntable phono tops, Models 2196 or 2197. **Shipping Weight:** 34 lbs.

Bell Model 3725B Standard Amplifier—List Price..................... **$149.50**

50 WATT STANDARD AMPLIFIER MODEL 3750B (NOT ILL.)

Sufficient wattage to cover 90% of commercial sound requirements. Tone control circuits, operating in an inverse feedback network, provide wide tone adjustments with very low distortion. **Model 3750BR** is the same basic amplifier with built-in stand-by relay for economical operation and prolonged life.

SPECIFICATIONS

Power Output: 50 watts at less than 5%. Peak power, 80 watts. **Frequency Response:** 30 to 15,000 cycles, ±1 db. **Gain:** Micro channels, 125 db; phono channel, 85 db. **Hum Level:** 67 db below rated output. **Inputs:** 3 microphone, 1 phonograph. **Input Impedances:** Micro channels, 10 megs; phono channel, 1 meg. **Controls:** 3 microphone volume, 1 phono volume, bass, treble with AC power switch. Model 3750BR has stand-by relay. **Output Impedances:** 2.5, 4, 8, 16, 250 and 500 ohms, 70 volt constant voltage tap. **Power Consumption:** 260 watts at 117 volts; 50-60 cycles. Adjustable 105-117-128 volts. **Tubes:** 3-7C6; 3-6SC7; 1-6SN7GT; 2-6L6G; 1-5U4G; 1-5R4GY; 1-5V4G. **Dimensions:** 16½" deep, 8" high, 16½" wide. **Shipping Weight:** 60 lbs.

Bell Model 3750B Standard Amplifier—
List Price.................................... **$246.10**

Bell Model 3750BR—With stand-by relay. List Price.. **$269.65**

15 WATT MOBILE AMPLIFIER MODEL 3717MB

A sturdily built but easily portable 15-watt mobile amplifier. Microphone input and built-in phono unit have separate volume controls. Rugged steel cabinet has a sloping, indirectly lighted control panel. Economical stand-by switch saves battery power but keeps filaments hot and ready for immediate use. AC power and DC battery cables are both supplied.

SPECIFICATIONS

Power Output: 15 watts at less than 5%. Peak power, 20 watts. **Frequency Response.** 50 to 15,000 cycles, ±2 db. **Gain:** Microphone channel, 115 db; phono channel, 80 db **Hum Level:** 60 db below rated output. **Inputs:** 1 microphone; 1 phonograph (built-in) **Input Impedances:** micro channel, 3.3 megs; phono channel, ½ meg. **Controls:** micro volume; phono volume; tone with AC switch; stand-by switch; phono motor "off-on" switch. **Output Impedances:** 2.5, 4, 8, 16, 250 and 500 ohms; 70 volt constant voltage tap. **Phono Motor:** single speed, rim drive, 78 rpm. **Power Consumption:** 110 watts, 117 volts, 60 cycles. 15 amps (max.), 6 volts DC. **Tubes:** 1-6SC7; 1-6SL7GT; 2-6V6GT; 1-6AX5GT. **Dimensions:** 10" deep, 14½" wide, 9" high. **Shipping Weight:** 25 lbs.

Bell Model 3717MB Mobile Amplifier—List Price........................ **$160.50**

Bell Model 3717MB3—All features of 3717MB, plus three speed motor and turnover-type pickup for 33⅓, 45 and 78 rpm. List Price..................... **$171.20**

PHONO TOPS MODELS 2196 AND 2197 (NOT ILL.)

For added convenience in use, the standard top on Models 3715B and 3725B amplifiers can be quickly and easily replaced with a phono top for either single speed (Model 2196) or three speed (Model 2197) record playing. Attachment is made by removing and replacing two sheet metal screws, and plugging in to two connectors for power and input. Both models are standard right angle phono tops.

SPECIFICATIONS

Size: 14¼" wide, 7" deep, 4¾" high. **Pickup:** crystal with knurled thumb-screw locking rest. Dual-purpose crystal turnover type on Model 2197. **Motor:** single speed, rim drive, 78 rpm on Model 2196. Three speed, rim drive, 33⅓, 45 and 78 rpm on Model 2197. **Connectors:** AC—right angle w/POSJ cord; PHONO—right angle w/single conductor, shielded microphone cable. **Motor Switch:** single pole, single-throw toggle with "off-on" plate. **Shipping Weight:** 5 lbs.

Bell Model 2196 Single Speed Phono Top—List Price.. **$32.10**

Bell Model 2197 Three-Speed Phono Top—List Price.. **$42.80**

50 WATT BOOSTER AMPLIFIER MODEL 2150B (NOT ILL.)

For operation from output of other amplifiers to provide an additional 50 watts of power, this seven-tube booster amplifier is ideal for large areas that must be covered by reinforced sound. Can be supplied with stand-by feature.

SPECIFICATIONS

Power Output: 50 watts at less than 5%. Peak power, 80 watts. **Frequency Response:** 30 to 15,000 cycles, ±1 db. **Gain:** low level input 62 db; high level input 24 db, based on 500/500. **Hum Level:** 73 db below rated output. **Inputs:** high level (10 volts) high imp.; low level (.12 volt), high imp. **Input Power:** 105-117-128 volts (adjustable), 50-60 cycles, AC, 255 watts, 2.3 amp max. **Tubes:** 2-6L6G; 1-6SN7GT; 1-6SC7; 1-5U4G; 1-5V4G; 1-5R4GY. **Output Impedances:** 2.5, 4, 8, 16, 250, 500 ohms and 70 volt constant voltage tap. **Dimensions:** 13½" deep, 8" high, 14" wide. **Shipping Weight:** 50 lbs.

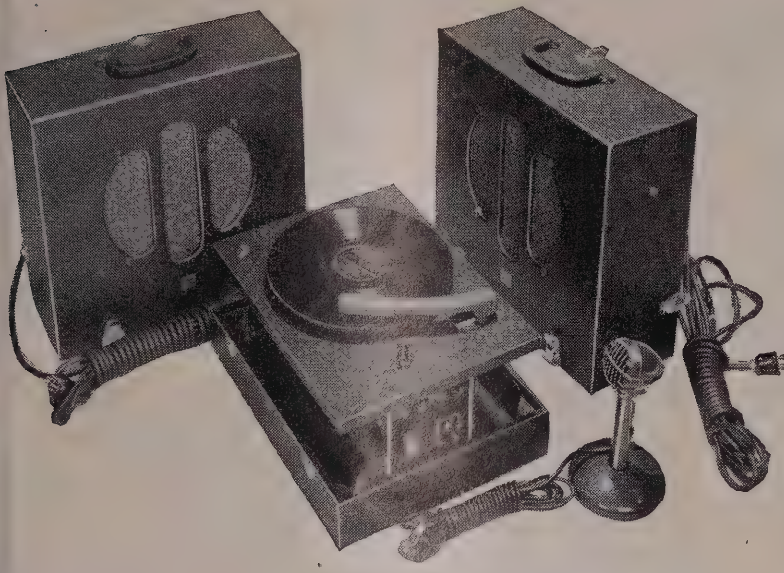
Bell Model 2150B Booster Amplifier—List Price.... **$170.68**

Bell Model 2150BR—With stand-by relay. List Price.. **$194.20**

Public Address Systems

BELL SOUND SYSTEMS

"THE BANDMASTER" 10 WATT SINGLE CASE PA SYSTEM
MODEL PA-3710B-P3



The "Bandmaster" is the neatest package of sound value ever offered in the low-price field. One compact, easily carried system provides all facilities for covering any medium-sized auditorium with public address, recordings or original music by voice or instrument. Amplifier-phono unit and two heavy duty 10" speaker housings are all assembled into a single carrying case. High-quality amplifier, three speed phono motor and dual-purpose turnover-type crystal pickup insure faithful reproduction. Turntable protected from accidental damage when not in use by inverting unit so that it is hidden in amplifier base. Microphone furnished.

SPECIFICATIONS

Amplifier: Model 3710B rated at 10 watts, peak, 15 watts.

Speakers: Two 10" heavy duty PM.

Cables: Two 25-ft. Type SV with plugs.

Phono Equipment: 33⅓, 45 and 78 rpm motor and turntable, with dual-purpose turnover crystal pickup.

Microphone: High impedance Type JT-30 with desk-type stand.

Microphone Cable: 15-ft. shielded rubber covered with connector.

Case: Model 3710, three-piece portable.

Dimensions: 12" deep, 15¾" wide, 18½" high.

Shipping Weight: 44 lbs.

Bell Model PA-3710B-P3 System. List **$230.05**

Bell Model 3710B—Amplifier only. List Price.......................... **$80.25**

"THE SPEECHMASTER" 15 WATT SINGLE CASE PA SYSTEM MODEL PA-3715B

Traditionally accepted as the outstanding public address "sound" value in the medium wattage class. Ingenious design permits Bell amplifier with undistorted 15-watt output, peak 18 watts; push-pull beam power output tubes; inverse feedback that reduces harmonic distortion; three input channels with separate volume controls that permit mixing of two microphones and a phono pickup. The system is truly portable. Everything is complete in one package. Can be set up and ready to operate in an extremely short time. Just plug in the speakers, attach the microphone, and insert the power plug into any 117-volt, 50-60 cycle AC socket. Illuminated control panel, soundly engineered modern design, convenient angle-set dials.

SPECIFICATIONS

Amplifier: Model 3715B rated at 15 watts, 18 watts peak.

Speakers: 2–10" heavy-duty PM.

Cables: 2-25′ Type SV with Plugs.

Built-in Phono Equipment: None.

Microphone: Not furnished with system.

Case: 3-piece portable case, assembles into 1 unit.

Dimensions: 13¾" deep; 19¾" high; 17¾" wide.

Shipping Weight: 62 lbs.

Model PA-3715B—List Price.................... **$203.30**

Bell Model 3715B—Amplifier only. List Price.................................. **$119.85**

"THE OLDMASTER" 25 WATT DUAL CASE PA SYSTEM
MODEL PA-3725B

A PA system with ample power for most applications and a wide range of desirable features. Through the use of negative feedback, all forms of non-linear distortion are reduced, and output regulation and frequency response are improved. Separate controls for all four inputs permit any combination or mixture of volume between three microphones and a phono pickup. Amplifier has its own carrying case. The two speaker cabinets, with heavy duty 12" speakers, join to form second case. Speakers are equipped with line-matching transformers and output sockets for flexibility. Phono tops, either single or three speed, are available for the amplifier.

SPECIFICATIONS

Amplifier: Model 3725B rated at 25 watts, peak, 33 watts.

Speakers: Two 12" heavy duty PM with line-matching transformers.

Cables: Two 50-ft. Type SV with plugs.

Phono Equipment: None furnished.

Microphone: Not furnished.

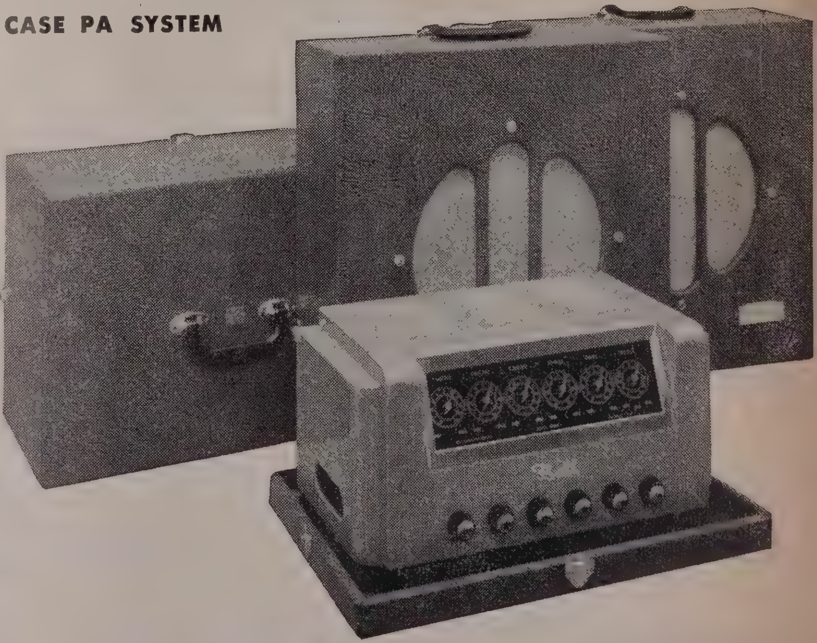
Case: One Model 95; One Model 14-A.

Dimensions: Model 14-A, 13¾" deep, 18" wide, 11¼" high; Model 95, 13¾" deep, 18" wide, 20¼" high.

Shipping Weight: Complete system, 87 lbs.

Bell Model PA-3725B System—List Price.................... **$283.55**

Bell Model 3725B—Amplifier only. List Price.................... **$149.50**



"THE SOUNDMASTER" 50 WATT DUAL CASE PA SYSTEM MODEL PA-3750B

One of the finest and most powerful portable PA systems on the market today. Two heavy duty 12" PM speakers are mounted in a diagonally-split carrying case, made up of two bass-reflex type cabinets. Speakers are equipped with line-matching transformers. A number of speakers can be connected in parallel, with only one speaker cable entering the amplifier. Has provision for matching to additional speakers. Available also with a relay-operated standby switch for economical operation.

SPECIFICATIONS

Amplifier: Model 3750B rated at 50 watts; peak, 80 watts.

Speaker Cable: Two 50-ft. Type SV cables with plugs.

Microphone: Not furnished.

Case: One Model 14-B; one Model 93.

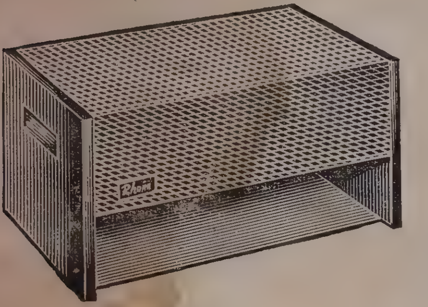
Dimensions: Model 14-B, 18" deep, 18¼" wide, 12¼" high; Model 93, 14¾" deep, 22" wide, 18" high.

Shipping Weight: Complete system, 130 lbs.

Bell Model PA-3750B System—List Price.......... **$428.00**

Bell Model 3750B—Amplifier only. List Price........ **$246.10**

Rhein Unitized Sound Systems



"UNITIZED FOR VERSATILITY"

Offers flexibility never before available in packaged PA equipment. There is now available a model to fit almost every requirement for number of input channels, tone controls and power outputs. There are four series of amplifiers, 14 watts, 20 watts, 30 watts and 50 watts, to provide the necessary power requirement. There are six different input units that plug into the basic amplifier, so that each of these amplifiers may be adapted for use as booster amplifier or for two, three or four input channels.

ORDER SEPARATE COMPONENTS

Rhein systems may be ordered complete as per table below, or the amplifier and the input may be ordered separately.

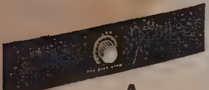
PRICES FOR SEPARATE COMPONENTS

Input	Net Ea.	Basic Amplifier	Net Ea.
"A"	$ 4.35	14-4	$ 41.55
"B"	14.10	20-4	49.50
"C"	19.80	30-4	58.35
"D"	23.40	50-4	101.10
"E"	25.95	....	....
"F"	28.65	....	....

PHONO TOP MODELS

All Rhein amplifiers are available with 3-speed Phono Tops. To order, add suffix "P" to Model Number, and add to Net.......................... $21.90

Rack Panel Models also available.



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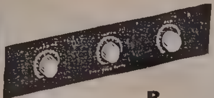

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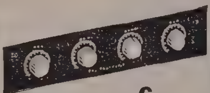

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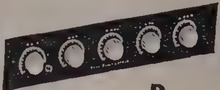

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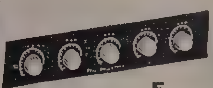

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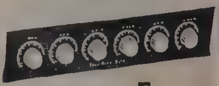

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"A" INPUT

Power, Watts*	Rhein Model	Inputs*	Controls	Tubes	Dimensions, In., HxWxD	Wt., Lbs.	Net Each
14	**14A4**	One, ½ meg., 72 db gain	One, Gain Control	1-6SF5, 1-6SN7GT, 2-6V6GT, 1-5Y3GT	7½x16½x 8½	24	$ 45.90
20	**20A4**	One, ½ meg., 68 db gain		1-6SF5, 1-6SN7GT, 2-6L6G, 1-5U4G	7¾x16½x 8½	31	53.85
30	**30A4**	One, ½ meg., 72 db gain		1-6SF5, 1-6SN7GT, 2-6L6G, 1-5U4G	7¾x16½x10½	36	62.70
50	**50A4**	One, ½ meg., 74 db gain		1-6SF5, 2-6SN7GT, 4-6L6G, 2-5U4G	8 x16½x11½	44	105.45

*At less than 5% total harmonic distortion. Response, 40-12,000 cps. Output Impedances, 4, 8, 16, 500 ohms, 70 volts.

"B" INPUT

14*	**14B4**	(2) Mic., 2 meg., 117 db gain, Phono, ½ meg., 75 db gain	(3) 1-Mic., 1-Phono, 1-Treble	1-12AX7, 1-6SF5, 1-6SN7GT, 2-6V6GT, 1-5Y3GT	7½x16½x 8½	24	$ 55.65
20*	**20B4**	(2) Mic., 2 meg., 117 db gain, Phono, ½ meg., 72 db gain		1-12AX7, 1-6SF5, 1-6SN7GT, 2-6L6G, 1-5U4G	7¾x16½x 8½	31	63.60
30*	**30B4**	(2) Mic., 2 meg., 117 db gain, Phono, ½ meg., 72 db gain		1-12AX7, 1-6SF5, 1-6SN7GT, 2-6L6G, 1-5U4G	7¾x16½x10⅛	36	72.45
50*	**50B4**	(2) Mic., 2 meg., 124 db gain, Phono, ½ meg., 74 db gain		1-12AX7, 1-6SF5, 1-6SN7GT, 4-6L6G, 2-5U4G	8 x16½x11½	44	115.20

*At less than 5% total harmonic distortion. Response, 40-12,000 cps. Output Impedances, 4, 8, 16, 500 ohms, 70 volts.

"C" INPUT

14*	**14C4**	(3) 2-Mic., 2 meg., 120 db 1-Phono, ½ meg., 74 db	(4) 2-Mic., 1-Phono, 1-Treble	1-12AX7, 1-6AV6, 1-6SF5, 1-6SN7GT, 2-6V6GT, 1-5Y3GT	7½x16½x 8½	24	$ 61.35
20*	**20C4**	(3) 2-Mic., 2 meg., 120 db 1-Phono, ½ meg., 75 db		1-12AX7, 1-6AV6, 1-6SF5, 1-6SN7GT, 2-6L6G, 1-5U4G	7¾x16½x 8½	31	69.30
30*	**30C4**	(3) 2-Mic., 2 meg , 120 db 1-Phono, ½ meg., 74 db		1-12AX7, 1-6AV6, 1-6SF5, 1-6SN7GT, 2-6L6G, 1-5U4G	7¾x16½x10⅛	36	78.15
50*	**50C4**	(3) 2-Mic., 2 meg., 124 db 1-Phono, ½ meg., 78 db		1-12AX7, 1-6AV6, 1-6SF5, 2-6SN7GT, 4-6L6G, 2-5U4G	8 x16½x11½	44	120.90

*At less than 5% total harmonic distortion. Response, 40-12,000 cps. Output Impedances, 4, 8, 16, 500 ohms, 70 volts.

"D" INPUT

14*	**14D4**	(3) 2-Mic., 2 meg., 124 db, 1-Phono, ½ meg., 74 db	(5) 2-Mic., 1-Phono, 1-Bass, 1-Treble	1-6AV6, 1-6SF5, 1-6SN7GT, 2-6V6GT, 1-5Y3GT	7½x16½x 8½	24	$ 64.95
20*	**20D4**	(3) 2-Mic., 2 meg., 124 db 1-Phono, ½ meg., 74 db		1-12AX7, 1-6AV6, 1-6SF5, 1-6SN7GT, 2-6L6G, 1-5U4G	7¾x16½x 8½	31	72.90
30*	**30D4**	(3) 2-Mic., 2 meg., 124 db 1-Phono, ½ meg., 74 db		1-12AX7, 1-6AV6, 1-6SF5, 1-6SN7GT, 2-6L6G, 1-5U4G	7¾x16½x10⅛	36	81.75
50*	**50D4**	(3) 2-Mic., 2 meg., 121 db 1-Phono, ½ meg., 74 db		1-12AX7, 1-6AV6, 1-6SF5, 1-6SN7GT, 4-6L6G, 2-5U4G	8 x16½x11½	44	124.50

*At less than 5% total harmonic distortion. Response, 40-12,000 cps. Output Impedances, 4, 8, 16, 500 ohms, 70 volts.

"E" INPUT

14*	**14E4**	(4) 3-Mic., 2 meg., 120 db 1-Phono, ½ meg., 72 db	(5) 3-Mic., 1-Phono, 1-Treble	2-12AX7, 1-6SF5, 1-6SN7GT, 2-6V6GT, 1-5Y3GT	7½x16½x 8½	24	$ 67.50
20*	**20E4**	(4) 3-Mic., 2 meg., 120 db 1-Phono, ½ meg., 72 db		2-12AX7, 1-6SF5, 1-6SN7GT, 2-6L6G, 1-5U4G	7¾x16½x 8½	31	75.45
30*	**30E4**	(4) 3-Mic., 2 meg., 120 db 1-Phono, ½ meg., 72 db		2-12AX7, 1-6SF5, 1-6SN7GT, 2-6L6G, 1-5U4G	7¾x16½x10⅛	36	84.30
50*	**50E4**	(4) 3-Mic., 2 meg., 123 db 1-Phono, ½ meg., 72 db		2-12AX7, 1-6SF5, 2-6SN7GT, 4-6L6G, 2-5U4G	8 x16½x11½	44	127.05

*At less than 5% total harmonic distortion. Response, 40-12,000 cps. Output Impedances, 4, 8, 16, 500 ohms, 70 volts.

"F" INPUT

14*	**14F4**	(4) 3-Mic., 2 meg., 120 db 1-Phono, ½ meg., 72 db	(6) 3-Mic., 1-Phono, 1-Bass, 1-Treble	2-12AX7, 1-6SF5, 1-6SN7GT, 2-6V6GT, 1-5Y3GT	7½x16½x 8½	24	$ 70.20
20*	**20F4**	(4) 3-Mic., 2 meg., 120 db 1-Phono, ½ meg., 72 db		2-12AX7, 1-6SF5, 1-6SN7GT, 2-6L6G, 1-5U4G	7¼x16½x 8½	31	78.15
30*	**30F4**	(4) 3-Mic., 2 meg., 120 db 1-Phono, ½ meg., 72 db		2-12AX7, 1-6SF5, 1-6SN7GT, 2-6L6G, 1-5U4G	7¾x16½x10⅛	36	87.00
50*	**50F4**	(4) 3-Mic., 2 meg., 120 db 1-Phono, ½ meg., 72 db		2-12AX7, 1-6SF5, 1-6SN7GT, 4-6L6G, 2-5U4G	8 x16½x11½	44	129.75

*At less than 5% total harmonic distortion. Response, 40-12,000 cps. Output Impedances 4, 8, 16, 500 ohms, 70 volts.

MODEL 104 10-WATT AMPLIFIER

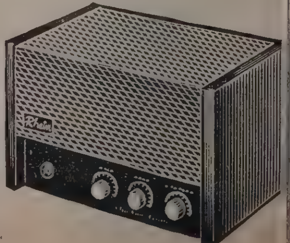
Delivers a full 10 watts of audio output—adequate power for many installations in which previously it has been necessary to employ more costly equipment. Push-pull 6V6's are used in the output to provide dependable power with low distortion. Two separate, individually controlled, inputs are available, microphone and phonograph. A tone control is also provided.

SPECIFICATIONS

Power Output: 10 watts at less than 5% distortion. **Frequency Response:** 40 to 10,000 cps. **Input Impedances:** Mic., 2 meg.; Phono, ½ meg. **Output Impedances:** 4, 8, 16 ohms. **Power Consumption:** 85 watts at 117 volts AC, 50-60 cps. **Tubes:** 1-6SJ7; 1-6SL7; 2-6V6GT; 1-5Y3GT. **Dimensions:** 6¼" high, 10½" wide, 7" deep. **Shipping Weight:** 14 lbs.

Sleek lines and flawless finish combine to give striking eye appeal. The control panel is recessed so that the knobs do not protrude beyond the front of the case. The case was designed for use where space is at a premium. The amplifier will withstand rough handling that it may be subjected to because of its extreme portability

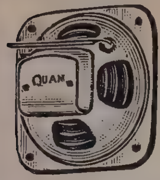
Rhein Model 104 Amplifier—Complete with tubes, cover. Net Each....... $35.70



PM and EM Dynamic Speakers

ADJUST-A-CONE
QUAM
A radio sounds only as good as its loudspeaker

REPLACEMENT SPEAKERS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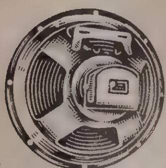
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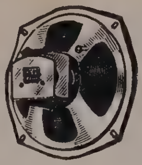
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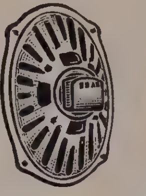
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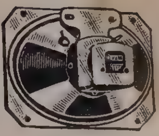
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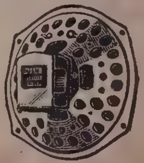
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Quam speakers have been produced under the same management since 1923 and are used by leading Television and Radio set manufacturers throughout the world. The speakers listed are especially designed for replacement purposes and sound applications. RETMA standard dimensions. Fully dustproofed. Baked aluminum enamel finish. RETMA service guarantee. Universal mounting bracket supplied with all speakers from 3½ to 6½ inches and may be attached to any two of the FOUR mounting holes in the U-shaped pot. Any field resistances not listed may be obtained at no extra charge on special order. Special voice coil impedances may be obtained at **15c** additional net.

Quam No.	Size In.	Type Fig.	Magnet* oz., or Field, Ohms	Max. Watts Input	Overall Dimen. OD††	Overall Dimen. Depth	Net Each
25A07	2½	A	.65 oz.	2	F	1¼	$2.40
3E45#	3½	A	450 ohms	2.5	G	1⅞	2.64
3A07**	3½	A	.68 oz.	2.5	G	1 19/32	2.40
4E45#	4	A	450 ohms	3	H	2	2.64
4E10	4	A	1000 ohms	3	H	2	2.64
4E27	4	A	2700 ohms	3	H	2	2.64
4A06**	4	A	.58	2.5	H	1 23/32	1.77
4A07**	4	A	.68 oz.	3	H	1 23/32	2.40
4A1	4	A	1.0 oz.	3	H	2 3/16	2.55
4A15	4	A	1.47 oz.	3	H	2 3/16	2.82
5EV6	5	C	6 volt	3.5	I	2⅛	2.76
5E45#	5	C	450 ohms	3.5	I	2⅛	2.76
5E10	5	C	1000 ohms	3.5	I	2⅛	2.76
5E18	5	C	1800 ohms	3.5	I	2⅛	2.76
5E27	5	C	2700 ohms	3.5	I	2⅛	2.76
5A07**	5	C	.68 oz.	3.5	I	1⅞	2.52
5A1	5	C	1.0 oz.	3.5	I	2 5/16	2.67
5A15	5	C	1.47 oz.	3.5	I	2 5/16	2.91
52EV6	5¼	C	6 volt	4	J	2½	3.00
52E10	5¼	C	1000 ohms	4	J	2½	3.00
52A1	5¼	C	1.0 oz.	4	J	2 23/64	2.79
52A21	5¼	C	2.15 oz.	4	J	2⅝	3.42
6EV6	6½	C	6 volt	5	K	2 23/32	3.24
6EHV6	6½	C	6 volt	6	K	2 25/32	3.66
6E45#	6½	C	450 ohms	5	K	2 23/32	3.24
6E10	6½	C	1000 ohms	5	K	2 23/32	3.24
6E18	6½	C	1800 ohms	5	K	2 23/32	3.24
6E25	6½	C	2500 ohms	5	K	2 23/32	3.24
6A1	6½	C	1.0 oz.	5	K	2⅝	2.88
6A15	6½	C	1.47 oz.	5	K	2⅝	3.12
6A21	6½	C	2.15 oz.	5	K	2⅞	3.51
6A31	6½	C	3.16 oz.	6	K	3 11/64	4.05
7EV6	7	F	6 volt	7	L	2¾	4.05
7EV6A†	7	F	6 volt	7	L	2¾	4.05
7A21**	7	F	1.4 oz.	6	L	2 21/32	4.35
7A31	7	F	3.16 oz.	9	L	3 1/32	5.10
8EV6	8	C	6 volt	7	M	3 9/32	4.05
8E10	8	C	1000 ohms	7	M	3 9/32	4.05
8EH10#	8	C	1000 ohms	9	M	3 13/16	4.65
8E18	8	C	1800 ohms	7	M	3 9/32	4.05
8EH18#	8	C	1800 ohms	9	M	3 13/16	4.65
8E25	8	C	2500 ohms	7	M	3 9/32	4.05
8EH25#	8	C	2500 ohms	9	M	3 13/16	4.65
8A21	8	C	2.15 oz.	7	M	3 13/32	4.32
8A31	8	C	3.16 oz.	9	M	3 21/32	5.10
10E60#	10	B	600 ohms	10	N	5 1/16	6.30
10E10#	10	B	1000 ohms	10	N	5 1/16	6.30
10E15#	10	B	1500 ohms	10	N	5 1/16	6.30
10E25#	10	B	2500 ohms	10	N	5 1/16	6.30
10A31	10	B	3.16 oz.	9	N	4½	6.30
10A4A	10	B	4.64 oz.	10	N	4½	7.02
10A6A	10	B	6.8 oz.	12	N	4⅝	8.16
12E60#	12	B	600 ohms	12	O	5⅝	7.59
12E10#	12	B	1000 ohms	12	O	5⅝	7.59
12E15#	12	B	1500 ohms	12	O	5⅝	7.59
12E25#	12	B	2500 ohms	12	O	5⅝	7.59
12A31	12	B	3.2 oz.	10	O	4 19/32	6.81
12A4A	12	B	4.64 oz.	12	O	5⅛	7.59
12A6A	12	B	6.8 oz.	14	O	5¼	8.70
46E45#	4x6	E	450 ohms	3.5	P	2 15/64	3.18
46E10	4x6	E	1000 ohms	3.5	P	2 15/64	3.18
46E15	4x6	E	1500 ohms	3.5	P	2 15/64	3.18
46A07**	4x6	E	.68 oz.	3.5	P	1 15/16	2.67
46A1	4x6	E	1.0 oz.	3.5	P	2¼	2.85
46A15	4x6	E	1.47 oz.	3.5	P	2¼	3.09
57E45#	5x7	E	450 ohms	5	Q	3 1/64	3.60
57E10	5x7	E	1000 ohms	5	Q	3 1/64	3.60
57A1	5x7	E	1.0 oz.	5	Q	2 57/64	3.24
57A15	5x7	E	1.47 oz.	5	Q	2 57/64	3.48
57A21	5x7	E	2.15 oz.	5	Q	3 9/64	3.87
69EV6	6x9	D	6 volt	8	R	3 13/16	4.50
69E10	6x9	D	1000 ohms	8	R	3 13/16	4.50
69A2**	6x9	D	1.4 oz.	8	R	2 15/16	4.50
69A3	6x9	D	3.2 oz.	10	R	3 5/16	5.37

V.C. Impedance of above speakers, 3.2 ohms ± 10%. **25A07, 3E45, 3A07** and **4A06** are without Adjust-a-cone suspension. #With hum bucking coils. **Very shallow construction. *All PM speakers use Alnico V magnets. †Rotated pots.

TELEVISION SPEAKERS

With hum-bucking coils. Order exact field resistance required if not listed below. V.C. Impedance, 3.2 ohms, ± 10%.

Quam No.	Size In.	Type Fig.	Magnet* oz., or Field, Ohms	Max. Watts Input	Overall Dimen. OD††	Overall Dimen. Depth	Net Each
5E62	5	C	62 ohms	3.5	I	2 7/16	$ 2.76
5E95	5	C	95 ohms	3.5	I	2 7/16	2.76
46E62	4x6	E	62 ohms	3.5	P	2 15/64	3.18
46E95	4x6	E	95 ohms	3.5	P	2 15/64	3.18
6E62	6½	C	62 ohms	5	K	2 23/32	3.24
6E95	6½	C	95 ohms	5	K	2 23/32	3.24

PUBLIC ADDRESS SPEAKERS

Voice Coil Impedance, Public Address Speakers: 6-8 Ohms, ± 10%.

Quam No.	Size In.	Type Fig.	Magnet* oz., or Field, Ohms	Max. Watts Input	Overall Dimen. OD††	Overall Dimen. Depth	Net Each
8A4	8	B	4.64 oz.	12	S	3¾	$ 6.12
8A6	8	B	6.8 oz.	12	S	3⅞	7.26
10A4	10	B	4.64 oz.	14	N	4½	7.02
10A6	10	B	6.8 oz.	14	N	4⅝	8.16
10A10	10	B	10 oz.	20	N	4 21/64	10.80
12A4	12	B	4.64 oz.	15	O	5⅛	7.59
12A6	12	B	6.8 oz.	15	O	5¼	8.70
12A10	12	B	10 oz.	25	O	4 15/16	11.40

*All PM speakers use Alnico V magnets.

INTERCOM SPEAKERS

Voice Coil Impedance of these speakers, 45 ohms, ± 10%.

Quam No.	Size In.	Type Fig.	Magnet* oz., or Field, Ohms	Max. Watts Input	Overall Dimen. OD††	Overall Dimen. Depth	Net Each
3A07Z45	3½	A	.68 oz.	2.5	G	1 19/32	$ 2.55
4A07Z45	4	A	.68 oz.	3.0	H	1 23/32	2.55
4A1Z45	4	A	1.00 oz.	3.0	H	2 3/16	2.70
5A07Z45	5	C	.68 oz.	3.5	I	1⅞	2.67
5A1Z45	5	C	1.00 oz.	3.5	I	2 5/16	2.82

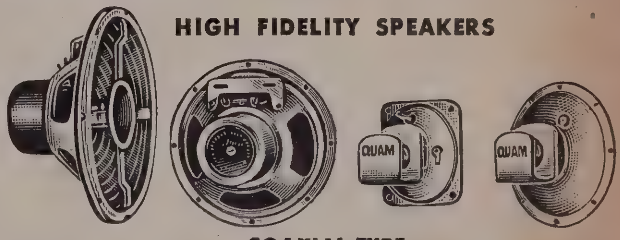
OUTDOOR THEATRE SPEAKERS

Quam No.	Size In.	Type Fig.	Magnet* oz., or Field, Ohms	Max. Watts Input	Overall Dimen. OD††	Overall Dimen. Depth	Net Each
3A07 OT	3½	A	.68 oz.	2.5	G	1 19/32	$ 2.40
4A1 OT	4	A	1.0 oz.	3	H	2 3/16	2.55
5A15 OT	5	C	1.47 oz.	3.5	I	2 5/16	2.91
6A15 OT	6	C	1.47 oz.	5	K	2⅝	3.12

††OUTSIDE DIAMETER AND MOUNTING CENTERS

Key	Diameter	Centers	Key	Diameter	Centers
F	2½" square	2 1/16	**M**	7½ pin cushion	5 2/64
G	3 15/32 square	2 25/32	**N**	10 3/32 round	9⅝
H	4 3/32 square	3 5/16	**O**	12 3/32 round	11 9/16
I	4⅝ pin cushion	3⅝	**P**	6 5/32x4 3/32 oval	4⅝x3⅝
J	5 3/32 pin cushion	4 5/32	**Q**	7¼x5 oval	4 11/32
K	6 3/32 pin cushion	4⅜	**R**	9¼x6⅜ oval	6 17/32x4⅝
L	7 pin cushion	4¼	**S**	8 round	7⅝

HIGH FIDELITY SPEAKERS



COAXIAL TYPE

Built to exacting Quam standards, these speakers give true theatre performance. Tweeter mounted coaxially on a bridging network. Alnico V magnets. Full Range—50 to 15,000 cps.

Model 12A6CO—12" L.F. unit with 3" H.F. unit. Capacity 14 watts. 6.8 oz. Alnico V magnet. V.C. Imp. 6-8 ohms.
Net Each..**$18.00**

Model 15A10CO—15" L.F. unit, 5" H.F. unit. 6-8 ohms; 20 watts, 10 oz. Alnico V magnet. Net Each....................**$28.50**

SINGLE CONE TYPE

Smooth wide range reproduction, low distortion. Rugged construction, adequate power handling capacity, ideal for custom installations. Models below have 10 oz. Alnico V magnets, a frequency response of 55-12,000 cps flat ± 5 db, impedance of 6-8 ohms. Voice coil diameter, 1".

Quam No. 8A10X—8". Input, 10 watts. Depth, 3¾".
Net..**$11.16**

Quam No. 10A10X—10". Input, 12 w. Depth, 5¼". Net.**$14.40**

Quam No. 12A10X—12". Input, 15 w. Depth, 5⅞". Net.**$15.60**

TWEETERS

Frequency Range 2000 to 15,000 cps ± 10 db, 2000 to 12,000 cps ± 6 db when connected to "woofer" voice coil with 2 mfd. capacitor in series. V.C. Impedance, 14 ohms. Magnet weight, 1.47 oz., Alnico V. 9/16" voice coil. Maximum input, 10 watts.

Quam No. 3A15T—3½". Resonance point, 1100 cps. Depth, 2 1/16". 3½" square. Four mounting holes on 3 15/16" ctrs. Net.....**$3.45**

Quam No. 5A15T—5". Resonance point, 1400 cps. Depth, 2 5/16". 5" square. Eight mounting holes on 4 11/16" ctrs. Net......**$3.90**

Speakers and Units by University

PAGING SPEAKERS

PAGING SPEAKERS are compact reflex horns with built-in hermetically sealed driver units and are of water and corrosion-resistant construction.

Rising frequency characteristic provides high degree of intelligibility which aids penetration of surrounding noise levels.

Highly suitable for intercom systems because large ratio of sensitivity permits even talk-back at a distance from the speaker.

University Model	Ohms Impedance	Watts	Mounting	Net Each
CR	16	20	Swivel Bracket	**$25.20**
IB8	8	12	Swivel Bracket	**19.50**
IBR	8	12	Swivel Bracket	**23.40**
MIL-8	8	3	Swivel Bracket	**15.00**
MIL-45	45	3	Swivel Bracket	**15.75**
MIS-8	8	3	Flange	**12.90**
MIS-45	45	3	Flange	**13.65**

RADIAL REFLEX TRUMPET

For applications requiring uniform 360° horizontal dispersion. High conversion efficiency effects coverage of large areas. Can be used with 2YC connector for greater power handling with two driver units. Uses any University driver. Supplied less driver unit.

University Model	Cut-Off	Dimensions		Shipping Weight	Net Each
		Diameter	Height		
RLH	120 cps	28⅛″	18½″	27 lbs.	**$35.40**
RPH	140 cps	25⅛″	14″	21 lbs.	**27.00**
RSH	180 cps	18⅞″	11″	18 lbs.	**23.10**

REFLEX HORNS

REFLEX HORNS represent the most efficient method of converting electrical power into acoustic energy, with a conversion value up to 50%. These speakers are compact and weatherproof, while maintaining maximum performance.

Built from heavy gauge metal and having corrosion-resistant finish, these trumpets will withstand any degree of outdoor exposure. Mechanical vibration is eliminated by rubber damped rims. A universal "U" bracket is provided for simplicity in mounting.

University Model	Dimensions		Low Freq. Cut-Off	Shipping Weight	Net Each
	Length	Diameter			
GH	27⅞″	30⅞″	85 cps	25 lbs.	**$39.00**
LH	19″	25⅝″	120 cps	20 lbs.	**26.70**
PH	15¾″	20¼″	150 cps	11 lbs.	**18.60**
SMH	12″	16¼″	200 cps	9 lbs.	**15.60**

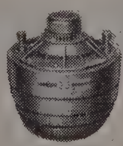
BREAK-DOWN PROOF DRIVER UNITS

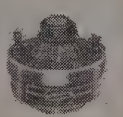
High efficiency Alnico 5 PM units, with molded phenolic diaphragms and dural voice coil suspension exclusive "rim-centering" technique provides rigid and shock-proof construction. They are hermetically sealed and waterproof and have excellent fatigue characteristics. Models PA-30 and SA-30 feature built-in line matching transformers, 5 taps for both the 70-volt system and standard impedances. All terminals are located on driver base. Primary impedance 165, 250, 500, 1000, 2000 ohms; constant voltage taps, 30, 20, 10, 5 and 2½ watts. Model SA-30 has 45 ohm tap for intercom circuit. Thread 1⅜″—18.

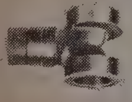
Univ. Model	Range	Watts	Ohms	Dimensions		Shpg. Wt.	Net Each
				Depth	Lgth.		
PA-30	80-10,000 cps	30	16	6¾″	6¾″	6 lbs.	**$30.00**
SA-30	90-10,000 cps	30	16	5″	6¾″	5 lbs.	**27.00**
SAHF	90-10,000 cps	25	16	4½″	5″	4 lbs.	**21.00**
MA-25	90-6,000 cps	25	16	4⅛″	3¾″	2½ lbs.	**16.50**

PA-30

SA-30


SA-HF


MA25


2YC

PMA

CTR-20

MODEL "BLC" WEATHERPROOF COAXIAL SPEAKER

High quality weatherproof coaxial speaker system for full range reproduction of music and speech. Bass speaker in compression type folded horn, front loaded. Driver driven tweeter with "reciprocating flares" wide angle horn is coaxially mounted through woofer. Built-in crossover at 2000 cps. Range 70-15,000 cps. Handles 25 watts. 8 ohms. Dispersion 120°. All aluminum rustproof enclosure, universal mounting bracket is "U" shaped and adjustable. Measures 22½″ dia., 9″ deep. Shipping Weight: 20 lbs.

University Model BLC—Net Each................ **$45.00**

MODEL WLC (not illustrated)—Larger version of the BLC. Response 50-15,000 cps, handles 30 watts, 8 ohms. 90° dispersion pattern. Measures 33½″ dia., 20″ deep. Shipping Weight: 80 lbs.

University Model WLC—
Net Each.................................. **$150.00**

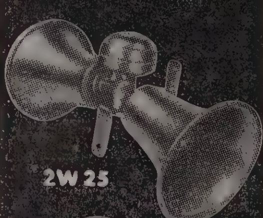
COBREFLEX-2

CIB

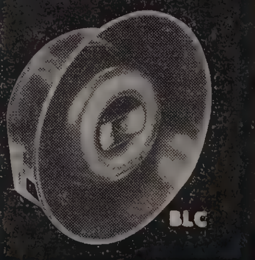
IB8

RADIAL

PH


2W 25

MM-2


BLC

COBREFLEX-2 REFLEX TRUMPET

Wide angle trumpet for use with any UNIVERSITY driver. Excellent for high power fixed and mobile PA work. The exclusive "dual exponential flare" provides twin air columns in a single assembly. Rugged construction of heavy die-cast aluminum and corrosion resistant finish permits use in any location and climate. Uniform power pattern; 120° horizontal, 60° vertical. Low frequency cut-off 250 cycles. Takes 2YC connector for use with two drivers to provide greater power handling. 9¼″ h., 18½″ w., 10¼″ d. Less driver. Shipping Weight: 12 lbs.

University Cobreflex-2— **$21.00**
Net Each..................

MODEL "CIB" PAGING SPEAKER

New CIB tops for covering crowded areas with effective wide angle sound. Exceptionally efficient built-in 12 watt hermetically sealed driver unit delivers high output with maximum intelligibility and noise penetration. Exclusive cobra flare insures uniform 300-13,000 cps response with 60° x 120° dispersion pattern. Excellent "talk-back" characteristics. Thickest gauge fibreglass/polyester horn is also steel reinforced for superior acoustic qualities and resistance to physical abuse. Exclusive serrated swivel mounting bracket. 7⅜″ x 14″ x 12″. Shipping Weight; 5½ lbs.

University Model **$24.00**
CIB-8—8 ohms. Net Ea.
University Model CIB-4—4 ohms.
Net Each.................**$25.20**

MODEL "CMIL" PAGING SPEAKER

Same as above, except smaller. Ideal in place of cone type speakers for intercom. and PA work. 400-13,000 cps., 3 watts, for 6⁷⁄₃₂″ x 9½″ x 8⁷⁄₁₆″. Shipping Weight: 3¾ lbs.

University Model **$17.25**
CMIL-8—8 ohms. Net...
University Model CMIL-45—
45 ohms. Net Each......**$18.00**

2W-25 PAGING SPEAKER

UNIVERSITY 2W-25 effectively covers two opposite areas for paging, intercom and announcing, with one 25 watt driver unit. Both reflexed horns are served by this driver through a "T" acoustic coupler. Horns have a 120° sound pattern. Driver included. Response: 350-6000 cps; handles 25 watts; 16 ohms; Shipping Weight: 10 lbs.

University Model **28.80**
2W-25—Net Each.......

SUBMERGENCE PROOF SPEAKER

Compact, with reflex air column and rugged built-in hermetically sealed driver unit. For use where speaker is exposed to salt spray, live steam, etc. Features exclusive serrated positive-lock mounting bracket with adjustable swivel. Triangular base will fit CTR-20—can be used with SPA adapter for pipe mount. Response 300-6000 cps; handles 15 watts; 16 ohms; 6″ o.d. by 4¾″ deep. Shipping Weight: 5 lbs.

University Model **$25.20**
MM-2—Net Each.......

WEATHERPROOF TRANSFORMER

Supports paging speakers when mounted to wall. Fits on U brackets of trumpets. Primary impedance: 45, 500, 1000, 1500 and 2000 ohms. Secondary impedance: 4, 8, 16 ohms; 25 watts. Shipping Weight: 3 lbs.

University Model **$9.00**
CTR-20—Net Each........

MODEL 2YC "Y" CONNECTOR

Permits using any trumpet, Cobreflex-2 and radial trumpets with two driver units for greater power. Shipping Weight: 1 lb.

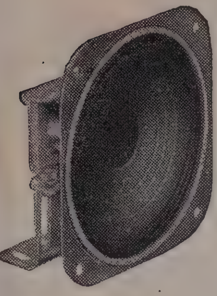
University Model 2YC—Net **$6.00**

MODEL "PMA" ADAPTER

For mounting Cobreflex-2, trumpets and radial trumpets to ½″ pipe. Attaches to "U" bracket. Shipping Weight: 2½ lbs.

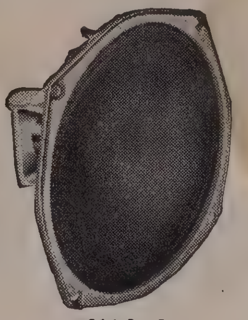
University Model PMA—Net **90c**

General Electric Speakers


4-Inch

5-Inch

5¼-Inch


6½-Inch

8-Inch

G. E. ALNICO V SPEAKERS

General Electric Permanent Magnet Speakers are newly designed to provide quality reproduction of voice and music. These are high efficiency, high sensitivity units, incorporating the latest engineering techniques.

Factory tested and inspected at each stage of manufacture, these speakers have also undergone a final inspection in a special acoustic chamber for noise and spurious response.

The magnets in all of these speakers are made from Alnico V with three times more energy per unit volume than the metal used in pre-war speakers.

Aluminum base voice coils are used in all models. These voice coils are not subject to warping resulting from high humidity, and provide much higher power handling capacity.

Cones are scientifically designed, molded from one piece, to assure faithful reproduction of tone and brilliant frequency response.

Special protective treatment is applied to speaker frame to preserve finish.

All weld frame construction insures rigidity and provides optimum controlled flux density.

6x9-Inch

10-Inch

12-Inch

The G-E 4" and 5¼" speakers employ the square housing; are compact, but have high frequency definition and full, true low notes. Ideal for table and portable radios. The G-E 5" round speaker is designed for service replacement. Alnico V permanent magnet and 4 watt power handling capacity gives large speaker performance. Mounting brackets included with all 3 sizes.

The 6½" and 8" models are pin cushion types for greater sensitivity and increased power. Can handle full audio power with virtually no distortion. Faithful reproduction for medium sizes.

G-E 10" and 12" loudspeakers afford the ultimate in quality reproduction. Wide range of models to fit various installations. Gives full, faithful tone to quality sound systems.

GENERAL REPLACEMENT SPEAKERS

G. E. No.	Size (Inches)	Magnet Weight (Ozs.)	Rating Power (Watts)	V. C. Imp. (Ohms)	V. C. Diameter (Inches)	Resonance (Cycles)	Response (Cycles)	Baffle Opening (Inches)	Shipping Weight		Net Each
									Lbs.	Ozs.	
400D	4	1.3	4	3.2	9/16	185	140 to 7,000	3½		10	$ 2.51
402D	4	1.0	4	3.2	9/16	185	140 to 7,000	3½		10	2.28
403D	4	.68	4	3.2	9/16	185	140 to 7,000	3½		8	2.13
500D	5	1.3	4	3.2	9/16	160	125 to 8,000	4⅜		12	2.62
503D	5	.68	4	3.2	9/16	160	125 to 8,000	4⅜		10	2.25
525D	5¼	1.3	4	3.2	9/16	160	120 to 7,000	4¾		12	2.65
526D	5¼	1.0	4	3.2	9/16	160	120 to 7,000	4¾		12	2.50
527D	5¼	.68	4	3.2	9/16	160	120 to 7,000	4¾		12	2.48
625D	6½	1.3	4	3.2	9/16	140	110 to 9,000	5⅜		14	3.05
626D	6½	1.0	4	3.2	9/16	140	110 to 9,000	5⅜		14	2.83
650D	6½	2.98	8	3.2	¾	150	100 to 10,000	5⅜	1	6	3.98
703D	6x9	1.47	8	3.2	¾	100	70 to 13,000	8¾x5½	1	12	4.25
800D	8	2.98	8	3.2	¾	100	80 to 11,000	6⅞	1	12	4.99
810D	8	6.8	12	3.2	1	100	80 to 10,000	6⅞	2	8	7.08
012D	10	3.16	12	3.2	1	75	60 to 7,000	8¾	3	6	6.20
200D	12	6.8	12	3.2	1	75	60 to 8,000	10¾	4	12	8.65
212D	12	3.16	12	3.2	1	75	60 to 8,000	10¾	4	4	5.81

PUBLIC ADDRESS SPEAKERS

818D	8	6.8	12	8.0	1	100	80 to 10,000	6⅞	2	10	7.20
218D	12	6.8	12	8.0	1	75	60 to 8,000	10¾	4	8	9.51

DRIVE-IN THEATRE SPEAKERS

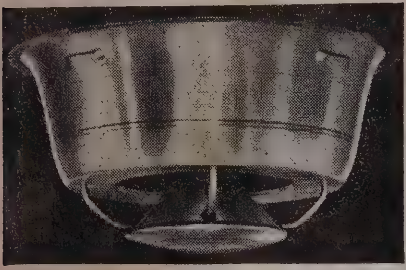
00C22	4	1.3	4	3.2	9/16	200	160 to 7,000	3½		10	2.40
25C18	5¼	1.3	4	3.2	9/16	160	120 to 7,000	4¾		12	2.58

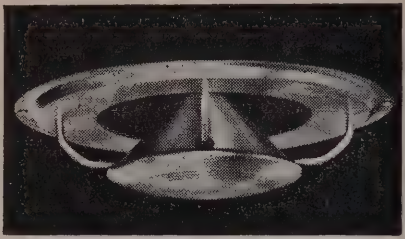
HIGH FIDELITY SPEAKERS

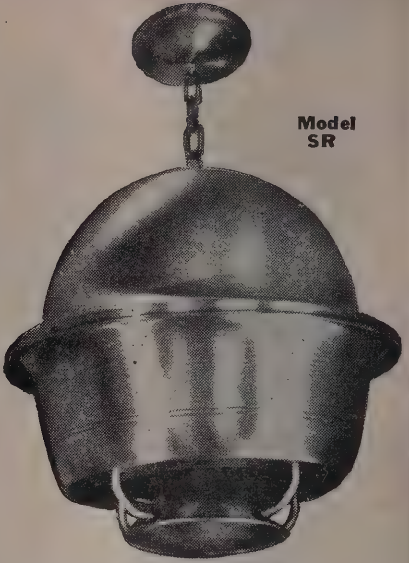
201A	12	14.5	25	8.0	1¼	70	50 to 13,000	10¾	6	8	20.37
203A	12	9.0	25	8.0	1¼	70	50 to 13,000	10¾	5	2	14.22

Speaker Baffles, Grilles, Reconing

LOWELL ALUMINUM CEILING TYPE SPEAKER BAFFLES


Model BL


Model AL



MODEL BL FLUSH MOUNTING CEILING BAFFLES

With "Floating Conical Action." Designed to mount flush to the ceiling quickly by inserting 4 toggle bolts, completely sealing back of housing to the ceiling. Uniform sound reproduction at 360° giving CONTROLLED SOUND evenly in all directions. Baffle housing contains 1″ flange at top. Recommended for normal ceilings. Made of 18 gauge spun aluminum. Heavy ¾″ jute lines interior with louvres on sides for pressure relief. Finished in any colored lacquer to match surroundings. Used for wired music installations, cocktail lounges, hotels, department stores, automatic phonographs, etc. **Dimensions:** 6″ model, 12¼″ at top, 4¼″ deep. 8″ model, 14¾″ at top, 4⅞″ deep. 12″ model, 18⅜″ at top, 8″ deep. **Lowell Model BL6-A**—6″ baffle. Net Each **$7.80**

Model BL8-A—8″ baffle. Net . . **$13.20** **Model BL12-A**—12″ baffle. Net . . **$16.20**

MODEL AL FALSE CEILING BAFFLES

With "Floating Conical Action." Uses entire ceiling for back sound board reproducing an excellent high and low frequency response. Recommended for low ceilings where concealment of baffles is required in an installation such as restaurants, night clubs, railroad cars and wired music installations requiring the use of this baffle. Made of 20 gauge aluminum. Housing is spun metal, having a depth of ½″ and a ½″ flange for mounting housing to the ceiling. Lower metal cone mounted to housing by 4, ¼″ formed metal rods. All hardware furnished with each unit. Sound coverage is approximately 360°. Any color lacquer finish. Housing is a flat trim ring with metal diffusing cone. It is necessary in installing this baffle to cut a hole in the ceiling as per the following: 6″ model, cut 7″ hole; 8″ model, cut 8½″ hole; 12″ model, cut 12½″ hole. **Dimensions:** 6″ model, 10″ diameter x ½″ depth; 8″ model, 11¾″ x ½″ depth; 12″ model, 16½″ dia. x 1″ depth.

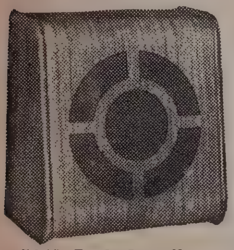
Model AL6-A—6″ baffle. Net Each **$4.50**
Lowell Model AL8-A—8″ ceiling baffle. Net Each **7.29**
Lowell Model AL12-A—12″ ceiling baffle. Net Each **9.18**

MODEL SR CHANDELIER BAFFLES

Easily and quickly installed, adds beauty to surroundings. Suppresses feed-back. Specially designed for railroad stations, churches and auditoriums or any other high ceiling areas. This unit suspended on chain approximately 15 feet from the floor. Even sound distribution at 360° low level controlled sound with perfect speaker cone loading preventing echo and reverberation against hard surfaces. Housing is 18 gauge aluminum and finished in satin aluminum clear lacquer finish. Heavy ¾″ jute padding lines both upper dome and lower housing. Install 15 feet above floor every 20 feet for best operating efficiency. Housing made in two parts, an upper dome-like section and lower half. All hardware for mounting speaker to housing completely furnished. **Dimensions:** 8″ model, upper dome, 14½″ diam. x 7″ high. Lower housing, 14⅜″ diam. x 5¼″ high. Overall, assembled—15″. 12″ model, upper dome 17½″ x 9″. Lower housing, 17⅜″ x 7½″. Overall, assembled, 21″

Lowell Model SR8-A—8″ chandelier baffle. Net **$18.00**
Lowell Model SR12A—12″ chandelier baffle. Net **22.20**

J. W. DAVIS "WATTERSON" BAFFLES



A heavily constructed intercommunication wall baffle, electronically welded, genuine walnut veneer front panel, solid walnut ends, highly finished. Sufficient baffle area to give fine frequency response. The trapezoidal design gives proper directional effect when mounted on wall.

Model 6-5—For desk or wall mounting. For 5″ or 6″ speaker. A regular 6″ baffle with a sub-baffle and template packed inside of each baffle when it is desired for use with a 5″ speaker. Size: 9½″ x 8½″ x 5½″. Includes all mounting hardware. Net Each **$4.20**

MODEL 8

For 8″ speaker. For general indoor communication work. Size: 11¾″ high x 11″ wide x 6″ deep. Same construction as Model 6-5. Includes mounting hardware. Net Each **$5.10**

MODEL 10

For 10″ speaker. Size: 14½″ high x 12¾″ wide x 7″ deep. Includes all mounting hardware. Net Each **$6.60**

MODEL 12

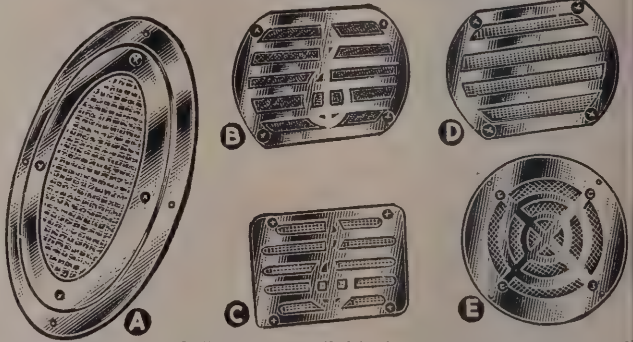
For 12″ speaker. Size: 16½″ high x 15″ wide x 9″ deep. Includes all mounting hardware. Net Each **$7.20**

SPEAKER RECONING AND REPAIRS

Our Loudspeaker Repair Department is organized especially to repair and recone speakers for the service man. Reconing prices are as follows:

Speaker Size		Reconing Net Each
3″	....	$1.60
4″	....	1.60
5″	....	1.70
6″	....	1.90
7″	....	2.30
8″	....	2.70
10″	.......(Voice Coil 1″ and under).......	3.00
10″	..........(Voice Coil over 1″)..........	3.15
12″	.......(Voice Coil 1″ and under).......	3.30
12″	..........(Voice Coil over 1″)..........	3.50
15″	....	4.50
4″ x 6″	....	2.10
5″ x 7″	....	2.40
6″ x 9″	....	2.75
9″	....	2.90

D & M SPEAKER GRILLES



D & M Speaker Grilles are available in a variety of sizes and shapes. Ideal for wall and ceiling or other type mounts. Oblong models and the 8-inch round models are available in polished chrome or baked gray hammertone finishes. The 12-inch mode also is available with prime coat for paint or enamel to match you color scheme. Twelve-inch model has woven Saran grille cloth other models have flocked speaker screens.

D & M Number	Key Letter	Size Inches	Description	Net Each
SG12C	A	12″	Chrome	$4.77
SG12H	A	12″	Gray Hammertone	4.50
SG12P	A	12″	Prime Coated	4.50
SG69C	B	6″ x 9″	Chrome	2.37
SG69H	B	6″ x 9″	Gray Hammertone	2.19
SG46C	C	4″ x 6″	Chrome	1.65
SG46H	C	4″ x 6″	Gray Hammertone	1.50
SG57C	D	5″ x 7″	Chrome	2.10
SG57H	D	5″ x 7″	Gray Hammertone	1.95
SG8WC	E	8″	Chrome. Flush type for wall or ceiling mount	2.67
SG8WH	E	8″	Gray Hammertone. Flush type for wall or ceiling mount	2.37
SG8RC	...	8″	Chrome. Similar in design to SG8W Round Grille	2.46
SG8RH	...	8″	Gray Hammertone. Similar to SG8W Round design	2.25

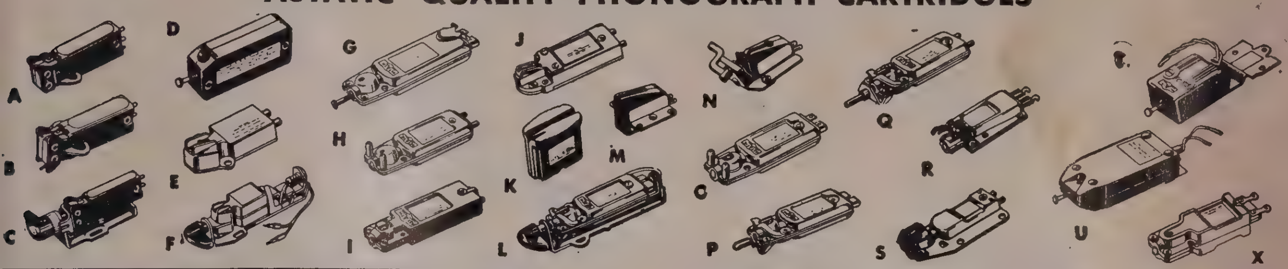
DUAL SPEAKER CONTROLS

Speaker switch operates either or both front and back sea speakers. Blend control blends both speakers for optimum listening. Both come complete with instructions for wiring and speake mounting. Include control knob and switch plate.

D & M Model DBC Blend Control—Net Each **$1.05**
D & M Model DSK Speaker Switch Kit—Net Each .... **.81**

Phono Cartridges, Motors, Headsets

ASTATIC QUALITY PHONOGRAPH CARTRIDGES



Present Model	Future Model	Fig.	Astatic Rec. Needle Type	Volts Out.	Min. Pres.	†	Net Each
AC-J	40-1	A	A-1(J)	1.0	6 gr.	9	$ 3.90
AC-AG-J	40-2	A	A-AG(J)	1.0	6 gr.	9	3.90
AC-78-J	40-3	A	A-3(J)	1.0	6 gr.	9	3.90
ACD-J	40-T	B	A-1(J), A-3(J)	1.0	6 gr.	6	5.70
ACD-2J	40-TB	C	A-1(J), A-3(J)	1.0	6 gr.	6	6.00
AC-RJ	42-1	A	A-1(J)	1.0	6 gr.	9	5.34
AC-C-J	41-1	A	A-1(J)	0.6	6 gr.	6	3.90
AC-C-AG-J	41-2	A	A-AG(J)	0.6	6 gr.	6	3.90
AC-C-78-J	41-3	A	A-3(J)	0.6	6 gr.	6	3.90
ACD-C-J	41-T	B	A-1(J), A-3(J)	0.6	6 gr.	5	5.70
ACD-C-2J	41-TB	C	A-1(J), A-3(J)	0.6	6 gr.	5	6.00
B-2	2	D	N4-3 (J or M)*	2.5	2¾ oz.	3	3.33
CAC-J	44-1	E	Q-33(J)	1.0	10 gr.	2	4.50
CAC-AG-J	44-2	E	Q-AG(J)	1.0	10 gr.	1	4.50
CAC-78-J	44-3	E	Q(J)	1.0	10 gr.	2	4.50
CAC-D-J	44-TB	F	Q33(J), Q(J)	0.7	10 gr.	2	6.30
CAC-1J	48-1	E	Q-33(J)	1.0	10 gr.	2	4.50
CAC-X	44-1X	E	Q-X	1.0	10 gr.	2	18.60
CAC-78-X	44-3X	E	Q-78-X	1.0	10 gr.	2	18.60
CAC-1-X	48-1X	E	Q-X	1.0	10 gr.	2	18.60
CAC-WJ	46-1	E	Q-33(J)	1.0	10 gr.	2	4.50
CAC-AG-WJ	46-2	E	Q-AG(J)	1.0	10 gr.	1	4.50
CAC-78-WJ	46-3	E	Q(J)	1.0	10 gr.	2	4.50
CAC-WX	46-1X	E	Q-X	1.0	10 gr.	2	18.60
L-12	12	H	N4-3 (J or M)*	4.0	1 oz.	5	3.00
L-12-U	12-U	G	N4-3 (J or M)*	**	1 oz.	5	3.30
L-26-A	4	I	N4-3 (J or M)*	1.4	2¾ oz.	4	3.00
L-29	22	H	N4-2 (J or M)*	3.0	10 gr.	5	3.60
L-40-A	6	I	N4-3 (J or M)*	0.6	1¼ oz.	4	3.00
L-70-A	24	I	N4-3 (J or M)*	1.0	1¼ oz.	3	3.33
L-72-A	26	I	N4-3 (J or M)*	3.5	1¼ oz.	3	3.99
L-74-A	14	I	N4-3 (J or M)*	1.4	1½ oz.	3	6.00
L-78	10	I	N4-3 (J or M)*	1.4	1½ oz.	3	6.69
L-82-A	32	I	N4-3 (J or M)*	3.5	1½ oz.	5	3.33
L-92	34	I	N4-3 (J or M)*	2.25	1 oz.	8	3.60
LQD-J	62-T	Q	Q-33(J), Q(J)	1.0	8 gr.	8	5.70
LQD-1J	62-TY	P	Q-33(J), Q(J)	1.0	8 gr.	8	5.70
LT-4AG-J	60-2	Q	D-AG(J)	2.0	8 gr.	5	4.20
QT-2J	36	J	Q(J)	0.85	1 oz.	9	5.34
QT-2J-PN	38	J	Q(J)	0.3	1 oz.	9	6.99

Present Model	Future Model	Fig.	Astatic Rec. Needle Type	Volts Out.	Min. Pres.	†	Net Each
U-J	50-1	K	U(J)	0.5	5 gr.	1	$5.34
U-78-J	50-3	K	U-78(J)	0.5	5 gr.	1	5.34
16L3	16	H	N4-2 (J or M)*	3.5	10 gr.	5	3.60
28	28	X	N4-2 (J or M)*	3.5	12 gr.	7	3.33
51-1J	51-1	M	G(J)	0.7	8 gr.	2	4.44
51-2J	51-2	M	G-AG(J)	0.7	8 gr.	1	4.44
51-3J	51-3	M	G-78(J)	0.7	8 gr.	1	4.44
53-1J	53-1	M	G(J)	0.7	8 gr.	2	4.44
53-2J	53-2	M	G-AG(J)	0.7	8 gr.	1	4.44
53-3J	53-3	M	G-78(J)	0.7	8 gr.	1	4.44
55-TJ	55-T	N	GD(J)	0.7	8 gr.	2	5.70
57-TJ	57-T	N	N-57(J)	0.7	8 gr.	2	5.70
62-1	62-1	R	K	3.0	10 gr.	5	4.20
64-TMS	64-TS	Q	K & K-78	3.0	10 gr.	5	5.10
66-1M	66-1	Q	K	3.0	10 gr.	5	4.20
66-2M	66-2	Q	K-AG	3.0	10 gr.	5	4.20
66-3M	66-3	Q	K-78	3.0	10 gr.	5	4.20
66-TMS	66-TS	Q	K & K-78	3.0	10 gr.	5	5.10
66-TMY	66-TY	P	K & K-78	3.0	10 gr.	5	5.10
68-1M	68-1	O	K	4.0	10 gr.	5	4.20
68-2M	68-2	O	K-AG	4.0	10 gr.	5	4.20
68-3M	68-3	O	K-78	4.0	10 gr.	5	4.20
68-TMS	68-TS	Q	K & K-78	4.0	10 gr.	5	5.10
68-TMY	68-TY	P	K & K-78	4.0	10 gr.	5	5.10
90-TB	90-TB	C	A-1(J), A-3(J)	0.5	6 gr.	9	5.40
90-TS	90-TS	C	A-1(J), A-3(J)	0.5	6 gr.	9	5.10
94-TB	94-TB	C	K & K-78	2.0	6 gr.	9	5.40
401-A	401	...	N4-3 (J or M)*	1.4	2¾ oz.	4	3.00
402-M	402	...	G-78(M)	0.7	12 gr.	9	4.14
403-J	403	E	Q(J)	1.35	10 gr.	2	4.50
405	405	P	K & K-78	3.0	10 gr.	5	5.10
406	406	Q	K & K-78	3.0	10 gr.	5	5.10
407	407	S	N4-2 (J or M)* or N4-3 (J or M)*	4.0	10 gr.	7	2.97
408	408	R	N-10-1J	0.8	10 gr.	6	3.84

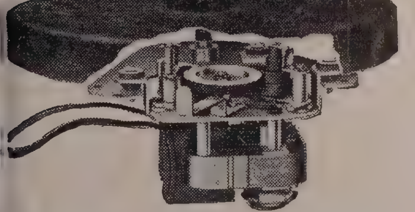
*Not included with cartridge.

**1.25v. with condenser harness, 4v. without condenser harness;

†Note, frequency ranges in cps: (1) 30-10,000; (2) 30-15,000; (3) 50-4,000; (4) 50-4,500; (5) 50-5,000; (6) 50-6,000; (7) 50-6,500. (8) 50-7,000; (9) 50-10,000.

ALLIANCE PHONOMOTORS

MODEL JPT8 RECORD PLAYER



SPECIFICATIONS

Mechanical—Turntable diameter 8″ or 9″ for record with .286 or 1½″ center hole. Turntable 33⅓ rpm nominal, for 6 gm. stylus force.
45 rpm nominal for 5 gm. stylus force.
78.26 rpm nominal for 1½ oz. stylus force.
Electrical—117 volt-60 cycle 0.3 amps nominal—14 watts nominal.
The new 3-speed Record Player has interchangeable center disc to convert from 78 or 33⅓ rpm records having .286 center hole to 45 rpm records with 1½″ center hole. The 3 urntable speeds are selected by the simple flick of an external lever. Entirely new motor eatures quiet operation, freedom from mechanical vibration, no external fan, greater ompactness and decreased height.

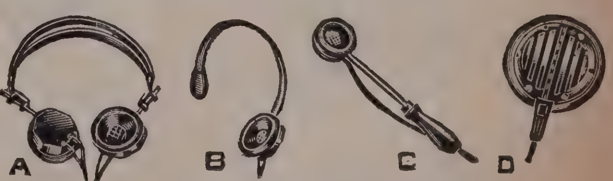
Alliance Model JPT8 with 8″ turntable. Net Each $6.57

MODEL MP8

For 78 rpm records. Fan cooled motor. Rubber-insulated against vibration. Friction drive.

Model MP-8—8″ turntable. Net . . $3.90
Model MP-9—9″ turntable. Net . . $4.08
Model MP-10—10″ turntable. Net $4.29

BRUSH CRYSTAL HEADPHONES AND PILLOW SPEAKER



MODEL "A-1" HEADSET (No. 205)

Similar to Fig. A. Use where high fidelity and extended frequency ange are of paramount importance (60 to 10,000cps. Corrected or rising response below 200cps.) Especially suited to monitoring, tc. **Sensitivity:** approx. 1.5 dynes/cm²/volt at 1000cps. **Impednce:** over 80,000 ohms at any frequency within the audio range. Headset complete with 5-ft. cord and headband. Shipping Weight, 2 lbs.

Brush Model A-1—Net Each $16.05

FIG. A—MODEL "A" HEADSET (No. 200)

For general purpose applications including lab., studio and home se. BIMORPH crystal drive element insures wide ranges, reponse from 100 to 8000 cycles, high sensitivity. High-Z **Brush Model "A"**—Headset, adjustable headband. Net $10.50

FIG. B—MODEL "A" SINGLE PHONE (No. 202)

ame receiver as above. Particularly adapted to individual or roup hearing aid and radio applications. Light weight, good ear eal, comfortable. With 5-ft. cord and headband. Net. . . . $6.75

FIG. C—MODEL "A" LORGNETTE PHONE BA-202

Designed for use in group hearing aid sound systems. Telescope xtension from 12″ to 17″. Satin black finish. Single phone, comlete with 5-ft. cord and lorgnette handle. Net Each. $8.70

FIG. D—MODEL BA-303 HUSHATONE

Miniature, molded plastic extension speaker for under pillow use. Disc shaped (4 3/16″ dia. x 1 1/16″ thick), causes no lump underneath pillow. Hermetically sealed, it can be dipped into disinfecting solutions not exceeding 120° F. BIMORPH crystal element. Adequate volume with only .001 watt power consumption. **Impedance:** approx. 40,000 ohms at 1000cps. Designed for use with any radio or sound system. 10-ft. cord equipped with phone tips attached by bayonet-type plug.

Brush Model BA-303—Shipping Weight, 2 lbs. Net Each. $7.80

Jensen Exact Replacement Needles

Figures in "point" column indicate point size as follows: 1—.001" Microgroove for 33⅓ and 45 rpm only; 2—.002" for all three speeds; 3—.003" Standard for 78 rpm only; 1-3—Twin needle—.001" and .003"; 2.5—.0025" Transcription for broadcasting. Letter following point size shows point material—M—metal; J—jewel. Needles marked (J) are also available with diamond points; simply add (D) to needle number when ordering.

FOR ASTATIC CARTRIDGES

Jensen Type	Fig.	Point	For Cartridge Type No.	Net Each
A-68	1	1-3J	Webcor 57T(J)	$2.10
A-69	1	1-3M	Webcor 57T(M)	1.50
A-71	1	1-3J	55T(J); GC-DJ	2.10
A-72	1	1-3M	55T(M); GC-DM	1.50
A-70	2	3M	14L3-78M; -D; -M	.90
A-70LP	2	1M	15L3-78M; -D; -M	.90
A-702	2	2M	14L3-AG; 15L3-AG	.90
A-73	3	3J	LT-3D; LT-4D; LT-4;	1.50
A-73LP	3	1J	LT-4D1	1.50
A-83	3	3M	Same as above	.90
A-83LP	3	1M	Same as above	.90
A-732	3	2J	LT-4-AG; LT-5-AG	1.50
A-832	3	2M	LT-4-AG; LT-5-AG	.90
A-86	3	3M	LT1-M; LT2-M; LT3-M	.90
A-86LP	3	1M	LT-33	.90
A-74	4	3J	GC series; 53-2; 51-1	1.50
A-74LP	4	1J	MG Series; 402M	1.50
A-84	4	3M	Same as above	.90
A-84LP	4	1M	Same as above	.90
A-742	4	2J	GC-AG-J; GC-AG-M;	1.50
A-842	4	2M	MG-AG-M	.90
A-75	5	3J	Series AC; ACD;	1.50
A-75LP	5	1J	10L3; 11L3	1.50
A-85	5	3M	Same as above	.90
A-85LP	5	1M	Same as above	.90
A-752	5	2J	AC-AG-J; AC-C-AG-J	1.50
A-852	5	2M	AC-AG-M; AC-C-AG-M	.90
A-76	6	3M	66TY; 68TY	.90
A-76LP	6	1M	66TY; 68TY	.90
A-762	6	2M	66TY; 68TY	.90
A-78	7	3J	U-78-J; U-78-M	1.50
A-78LP	7	1J	U-J; U-M	1.50
A-88	7	3M	U-78-M; U-78-J	.90
A-88LP	7	1M	U-M; U-J	.90
A-87	7	3M	MD-3 Markel	.90
A-87LP	7	1M	MD-1 Markel	.90
A-89	7	3J	MD-3 Markel	1.50
A-89LP	7	1J	MD-1 Markel	1.50
A-80	8	3M	Ser. QT; LQD; CAC;	.90
A-80LP	8	1M	CQ; 403	.90
A-81	8	3J	Same as above	1.50
A-81LP	8	1J	Same as above	1.50
A-802	8	2M	CQ-AG; CAC-AG	.90
A-812	8	2J	Same as above	1.50
A-82	9	3M	Nylon 1M; 1J	.90
A-82-S	9	3J	Same as above	1.50
J-15LP	10	1M	L-92-33	.90
J-152	10	2M	L-92-A; L-29; 16L3; 17L3	.90

FOR ELECTRO-VOICE CARTRIDGES

E-90	11	3J	10; 30; 40; 12; 32; 42;	1.50
E-95	11	3M	47; 36; 46; 96; 82S	.90
E-90LP	11	1J	10; 30; 40; 14; 34; 44;	1.50
E-95LP	11	1M	36; 46; 47; 96; 84S	.90
E-902	11	2J	Series 33; 43;	1.50
E-962	11	2M	Admiral 409A13-1	.90
E-91	12	1-3J	16TT; 22TT	2.10
E-93	12	1-3M	16TT; 22TT	1.50
J-152	10	2M	50; 60	.90

FOR GENERAL ELECTRIC CARTRIDGES

G-10	13	3J	RPX-040; -041; -042;	2.10
G-10LP	13	1J	-046; -061; -063	2.10
G-1025	13	2.5J	Same as above	2.10
G-11	14	1-3J	RPX-047; -050; -051;	3.57
G-12	14	1-2.5J	-052; -053	3.57
G-13	15	1-3J	Same as above	3.57
G-12.5	15	1-2.5J	Same as above	3.57
G-1	16	1J	Same as above	2.10
G-3	16	3J	Same as above	2.10
G-2.5	16	2.5J	Same as above	2.10

FOR MAGNAVOX CARTRIDGES

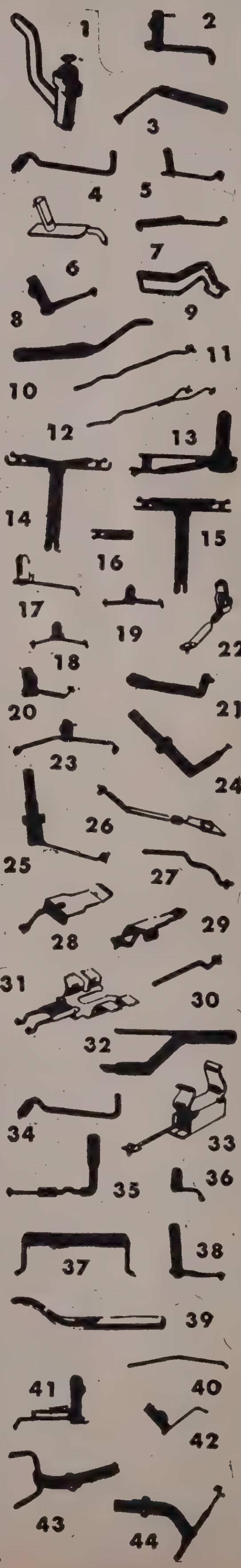
A-81	8	3J	560052	1.50
M-02	17	3M	560101	.90
M-46	18	1-3M	560133; 560133-4	1.50
M-48	18	1-3J	Same as above	2.10
M-47	19	1-3M	560151-5; 560151-6	1.50
M-49	19	1-3J	Same as above	2.10
S-66	35	1-3J	560161-1	2.10

FOR PHILCO CARTRIDGES

PH-9	20	1J	45-9792	1.71
PH-10	21	3J	76-1622 Dyn. Rep.	1.35
M-60LP	22	1J	45-1609; 45-1612	.90
PH-11	22	1M	Same as above	.90
PH-12	23	1-3M	76-4649	1.50
PH-13	23	1-3J	76-4649	2.10
A-76	6	3M	425-0012	.90
A-76LP	6	1M	425-0012	.90
JPS-30	27	3J	35-2671; 35-2674	1.50

FOR RCA CARTRIDGES

M-70	24	3J	70338; 70339; 72551	2.37
M-71	24	3M	Same as above	1.20
M-70LP	24	1J	74067	.96
M-71LP	24	1M	74067	.90
M-72	24	3J	9890; 39919; 39550;	2.37
M-73	24	3M	38598; 70332; 39851	1.20
M-74	25	3J	75475; 77779	1.50
M-75	25	3M	75475; 77779	.90



FOR RCA—CARTRIDGES—Cont.

Jensen Type	Fig.	Point	For Cartridge Type No.	Net Each
M-74LP	25	1J	75475; 74625; 75575;	$1.50
M-75LP	25	1M	76318; 77779	.90
A-74LP	4	1J	74984; 76297	1.50
A-81LP	8	1J	73839	1.50
A-75LP	5	1J	76257; 988370-2	1.50
G-10LP	13	1J	74466	2.10
G-11	14	1-3J	78634; 78769; 93409	3.57
JPS-30	27	3J	75044	1.50
JPS-30LP	27	1J	75044; 76257; 988370-1	1.50
JPS-33	29	3J	78478	1.50
JPS-33LP	29	1J	78478	1.50
S-66	35	1-3J	78748	2.10
S-63LP	33	1J	79791	1.50

FOR RONETTE (COLLARO) CARTRIDGES

CR-55	26	3J	Studio O; Studio P;	1.50
CR-55LP	26	1J	TO-284-N; TO-284-OV	1.50

FOR SHURE CARTRIDGES

JP-30	27	3M	P Series (30, 57, 70, 72, 72V, 73, 76, 76V, 77, 79, 85	.90
JP-30LP	27	1M	88, 89, 94) PC41V; PN30; W Series (21A, 21AR, 21F.	.90
JPS-30	27	3J	22A, 22AB, 23A, 23B, 60A, 60B, 60HS, 60PN, 61B, 65B)	1.50
JPS-30LP	27	1J	WC22AB; Admiral 409A11	1.50
JP-312	27	2M	P37; P71; P81; P81AD; W26A; W26B	.90
JPS-312	27	2J	W66B; Adm. 409A13	1.50
JP-32	28	3M	WC33B; WC24;	.90
JP-32LP	28	1M	PC40; PC9; PC11;	.90
JPS-32	28	3J	W31AR; WC31AR	1.50
JPS-32LP	28	1J	Same as above	1.50
JP-322	28	2M	W36B; WC36B;	.90
JPS-322	28	2J	PC10	1.50
JP-33	29	3M	PC14	.90
JP-33LP	29	1M	PC13	.90
JP-332	29	2M	PC12; WC38	.90
JPS-33	29	3J	PC14	1.50
JPS-33LP	29	1J	PC13	1.50
JPS-332	29	2J	PC12, WC38	1.50
JP-34	30	3M	PC42AD; Admiral	.90
JP-34LP	30	1M	409B19-8	.90
JPS-34	30	3J	Same as above	1.50
JPS-34LP	30	1J	Same as above	1.50
JP-35	31	1-3M	PC-2; PC-3	1.50
JPS-35	31	1-3J	PC-2; PC-3	2.10
JP-36	31	1-3M	PC4; PC5	2.10
JPS-36	31	1-3J	PC4; PC5	3.57
J-15LP	10	1M	P93MG; P95MG;	.90
J-152	10	2M	W53MG	.90
WG-65	32	3M	W56N; W56R; W65N	1.50
WG-652	32	2M	Same as above	1.50

FOR SONOTONE CARTRIDGES

S-63	33	3J	1P-3S	1.50
S-63LP	33	1J	1P-1S	1.50
S-632	33	2J	1P-2S	1.50
S-64	34	3J	W-7590-3 Titone	1.50
S-65	34	3M	Same as above	.90
S-64LP	34	1J	W-7590-1 Titone	1.50
S-65LP	34	1M	Same as above	.90
S-642	34	2J	W-7590-2 Titone	1.50
S-652	34	2M	Same as above	.90
S-66	35	1-3J	W9980-S; W9980-SD	2.10

FOR WEBSTER ELECTRIC CARTRIDGES

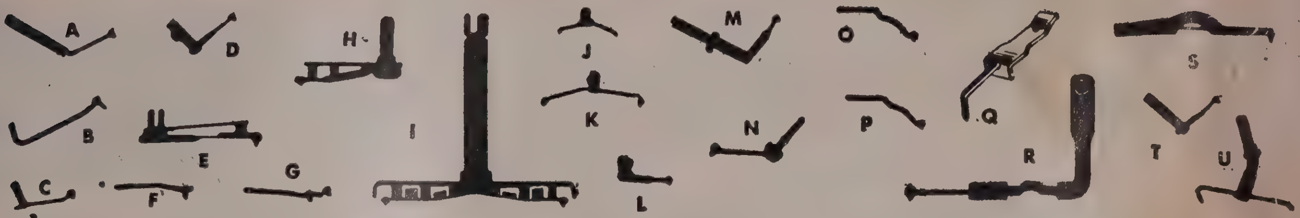
W-02	36	3M	M-1	0.90
W-05	37	1-3M	F14 Series	1.50
J-15LP	10	1M	F7 Series; F13; Q2; AJ4	.90
W-14	38	3J	A1 thru A8; AX	1.50
W-15	38	1J	Same as above	1.50
W-16	38	3M	Same as above	.90
W-17	38	1M	Same as above	.90
W-38	38	2M	A9M; A9-1; All	.90
W-44	38	3M	F-20; F-22; FX	.90
W-44LP	38	1M	Same as above	.90
W-52	38	3M	RG Series	.90
W-52LP	38	1M	RG Series	.90
W-72	38	3M	F16; F16-1; F16-2	.90
W-73	38	1M	Same as above	.90
W-81	38	3M	F15; F15-1; F18; F19	.90
W-82	38	1M	Same as above	.90
J-25	39	3J	Q2; WS; Q1	1.50
J-152	10	2M	Q3; C9; CX; F-13; WS	.90
W-36	40	3M	G3M	.90
W-36LP	40	1M	G1M	.90
W-362	40	2M	G2M	.90
W-43LP	41	1M	B1M; BX	.90
W-45	42	3M	AG1M; AG7M; AG1;	.90
W-45LP	42	1M	AG7	.90
JPS-30	27	3J	F10; F11; F11-1	1.50
JPS-30LP	27	1J	F11; F11-1	1.50

FOR WEBSTER-CHICAGO (WEBCOR) CARTRIDGES

NE-215	43	1-3M	21P247; 21P402, 3	2.40
NE-317	44	1-3J	21P404	3.00
NE-368	44	1-3M	21P404	2.40

Jensen Replacement Needles

DIAMOND NEEDLES



FOR ASTATIC CARTRIDGES

Jensen No.	Fig.	Cartridge Numbers	Point	Net
A-73D	A	LT-3D; LT-4D	3	$15.00
A-73LPD	A	LT-3D; LT-4; LT-4D	1	15.00
A-732D	A	LT-4-AG; LT-5-AG	2	15.00
A-74D	A	GC-78-J	3	15.00
A-74LPD	B	GC-J; GC-1J	1	15.00
A-742D	B	GC-AG-J	2	15.00
A-75D	C	AC-78; ACD Series; 10L3; 11L3	3	15.00
A-75LPD	C	AC; ACD Series; 10L3; 11L3	1	15.00
A-752D	C	AC-AG-J	2	15.00
A-81D	D	QT-J; QT2-J; QT3-J; LQD; LQD-1; CAC Series	3	15.00
A-81LPD	D	QT-33-J; CQJ; LQD; LQD-1; CAC Series	1	15.00
A-812D	D	CQ-AG-J; CAC-AG-J	2	15.00

FOR AUDAK CARTRIDGES

Jensen No.	Fig.	Cartridge Numbers	Point	Net
AU-50D	E	R-2; R-6	3	15.00
AU-50LPD	E	R-2; R-6	1	21.00

FOR ELECTRO-VOICE CARTRIDGES

Jensen No.	Fig.	Cartridge Numbers	Point	Net
E-90D	F	10; 30; 40; Series 12, 32, 42, 36, 46, 96	3	15.00
E-90LPD	F	10; 30; 40; Series 12, 32, 42, 36, 46, 96	1	15.00
E-902D	F	Series 33, 43; Admiral 409A13-1	2	15.00
E-91D	G	16TT; 22TT	1–3	30.00
E-91SD	G	16TT; 22TT	1–3	18.00

FOR G.E.CARTRIDGES

Jensen No.	Fig.	Cartridge Numbers	Point	Net
G-10D	H	RPX-040; RPX-041; RPX-042; RPX-046; RPX-061; RPX-063	3	16.50
G-10LPD	H	Same as G-10D	1	16.50
G-1025D	H	Same as G-10D	2.5	16.50
G-11D	I	RPX-047; RPX-050; RPX-051; RPX-052; RPX-053	1–3	29.70
G-11SD	I	Same as G-11D	1–3	18.00

FOR MAGNAVOX CARTRIDGES

Jensen No.	Fig.	Cartridge Numbers	Point	Net
M-46D	J	560133; 560151	1–3	30.00
M-46SD	J	560133; 560151	1–3	18.00

FOR PHILCO CARTRIDGES

Jensen No.	Fig.	Cartridge Numbers	Point	Net
PH-13D	K	76-4649	1–3	$30.00
PH-13SD	K	76-4649	1–3	18.00
M-60LPD	L	45-1609; 45-1612	1	15.00

FOR RCA CARTRIDGES

Jensen No.	Fig.	Cartridge Numbers	Point	Net
M-700	M	70338; 70339; 72551	3	15.00
M-70LPD	M	74067	1	15.00
M-74D	N	75475	3	15.00
M-74LPD	N	75475; 74625; 75575; 76318	1	15.00

FOR SHURE CARTRIDGES

Jensen No.	Fig.	Cartridge Numbers	Point	Net
JPS-30D	O	P30; P57; P70; P72; P76; P77; P79; P85; P88; P89; P94; PN30; W22A; W23A; W26B; W60A; W66B; Adm. 409A13	3	15.00
JPS-30LPD	P	P73; P72V; P76V; W21A; W21AR; W22A; W22AB; WC22AB; Admiral 409A11	1	15.00
JPS-32D	Q	WC33B; WC24; PC-40; PC9	3	15.00
JPS-32LPD	Q	W31AR; WC31AR; WC24; PC40; PC11	1	15.00

FOR SONOTONE CARTRIDGES

Jensen No.	Fig.	Cartridge Numbers	Point	Net
S-66D	R	W9980-S; W9980-SD	1–3	30.00
S-66SD	R	W9980-S; W9980-SD	1–3	18.00

FOR WEATHERS CARTRIDGES

Jensen No.	Fig.	Cartridge Numbers	Point	Net
WT-24D	S	W-2C (for all modern players)	3	19.75
WT-24LPD	S	W-2C (for all modern players)	1	19.75
WT-242D	S	W-2C (for all modern players)	2	19.75
WT-25D	S	W-2 (W-12 and W-16 arms only)	3	19.75
WT-25LPD	S	W-2 (W-12 and W-16 arms only)	1	19.75
WT-252D	S	W-2 (W-12 and W-16 arms only)	2	19.75

FOR WEBSTER ELECTRIC CARTRIDGES

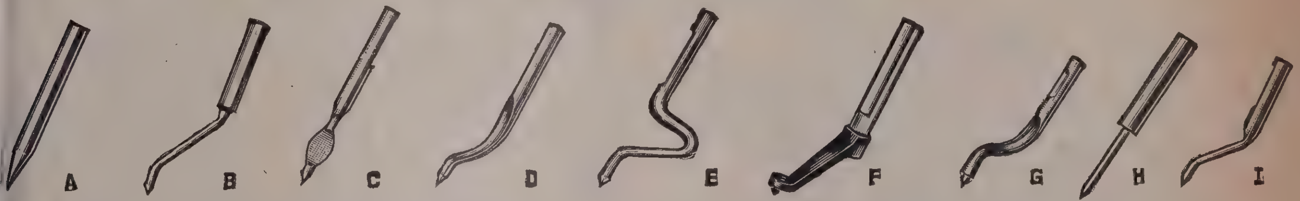
Jensen No.	Fig.	Cartridge Numbers	Point	Net
W-14D	T	A1; A7; A8	3	15.00
W-15D	T	A1; A2; A3; A4; A5; A6; A7; A8	1	15.00

FOR WEBSTER CHICAGO CARTRIDGES

Jensen No.	Fig.	Cartridge Numbers	Point	Net
NE-368D	U	21P404	1–3	30.00
NE-368SD	U	21P404	1–3	18.00

CODE—Point Size: **1** is for 33⅓ and 45 RPM; **2** is for all three speeds; **2.5** is for transcription; **3** is for 78 RPM; **1–3** is for two points, one for 78 RPM and the other for 33⅓ and 45 RPM. Suffix **D** indicates Diamond point; **SD** Diamond on micro side.

CONVENTIONAL SHANK NEEDLES



SYMPHONETTE (FIG. A)

The world's finest steel needle. Designed especially for non-electric record players. For 78 RPM records.

Jensen No. 125—Package of 30 needles. Net Each........ **15c**

Jensen No. 125D—Display of 50 packages. Net Each.... **$6.25**

"50" (FIG. B)

Lowest priced quality phono needle on the market. A Durosmium tip needle that is fine for both popular and classical recordings. For 78 RPM records.

Jensen No. J-5—Single needle. Net Each.................. **30c**

Jensen No. 5D—Display of 24 packaged needles. Net Each **$6.00**

"75" (FIG. C)

High in quality, low in cost. Genuine Durosmium tip. Straight shank, notched for exact positioning. For 78 RPM records.

Jensen No. J-75—Single needle in card-type package. Net **45c**

Jensen No. 75D—Display of 24 needles. Net Each...... **$9.00**

CONCERT (FIG. D)

The Concert Needle, with Durosmium tip, provides full-range record reproduction. The needle is constructed with a flexible shank to protect records. For 78 RPM records.

Jensen No. J-10—Single needle in card-type package. Net **60c**

Jensen No. 10D—Display of 13 packaged needles. Net Ea. **$6.00**

CLASSIC (FIG. E)

The Classic Needle has a long life Durosmium tip and incorporates the exclusive Jensen spring construction. Designed especially for brilliant reproduction of instrumental and vocal recordings. Wide tonal range. For 78 RPM records.

Jensen No. J-15—Single needle in card-type package. Net **90c**

Jensen No. 15D—Display of 13 packaged needles. Net... **$9.00**

NYLON (FIG. F)

The finest nylon needle made for any type record player. Comes with either Sapphire ("Royal") or Durosmium ("Classic") tip. Three different point sizes are available: Standard, Micro-groove and All-Purpose. These needles are made to rigid specifications with genuine spring action for shock-proof operation.

CLASSIC NYLON

Jensen No. NY-151 Classic Nylon—Durosmium tip. 33⅓ and 45 RPM. Single needle in card-type package. Net Each........ **90c**

Jensen No. NY-152 Classic Nylon—Durosmium tip. 33⅓, 45 and 78 RPM. Single needle in card-type package. Net Each.... **90c**

Jensen No. NY-153 Classic Nylon—Durosmium tip. 78 RPM. Single needle in card-type package. Net Each.............. **90c**

Classic Display—Any type, 12 packaged needles. Net.... **$9.00**

ROYAL NYLON (Also Available with Diamond Tip)

Jensen No. NY-251 Royal Nylon—Sapphire tip. 33⅓ and 45 RPM. Single needle in card-type package. Net Each..... **$1.50**

Jensen No. NY-252 Royal Nylon—Sapphire tip. 33⅓, 45 and 78 RPM. Single needle in card-type package. Net Each..... **$1.50**

Jensen No. NY-253 Royal Nylon—Sapphire tip. 78 RPM. Single needle in card-type package. Net Each................ **$1.50**

Royal Display—Any type, 12 packaged needles. Net Ea. **$15.00**

ROYAL JEWEL (FIG. G)

The Jensen Royal Jewel phonograph needle with a genuine sapphire tip designed for customers that demand a long-life, top quality needle. Also available with diamond tip.

Jensen No. J-25—For 78 RPM. In card-type package. Net **$1 50**

Jensen No. 25D—Display of 12 packaged needles. Net. **$15.00**

ALL-PURPOSE NEEDLES (FIG. H. & I)

Jensen all-purpose durosmium needles are the finest designed needles for use on 3-speed players with lightweight tone arms.

Jensen No. J-752—33⅓, 45 and 78 RPM. Straight shank, high output. Single needle, card-type package. Net Each.. **60c**

Jensen No. J-752D—Display of 12 packaged needles. Net **$6.00**

Jensen No. J-152—Curved shank, medium output. For 33⅓, 45 and 78RPM. Single needle, card-type package. Net Each... **90c**

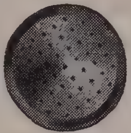
Jensen No. J-152D—Display of 12 packaged needles. Net **$9.00**

SHURE PHONO CARTRIDGES—MICROPHONE ACCESSORIES

"CONTROLLED RELUCTANCE" CARTRIDGE

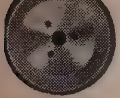
Ideal for replacement of crystal microphone cartridges in Shure cases of the Model 707A and Model 100 Series designs. Replaces cartridges in cases of other manufacturers' models of similar design, where space permits. Output level: −51 db. Practically unaffected by heat and humidity. Supplied with rubber mounting ring with diameter of 2¼"; thickness of ⅝". Overall depth of cartridge ⅞".
Model R5—Net Each....................**$6.00**

CRYSTAL MICROPHONE CARTRIDGE



The Model R7 Crystal Microphone Cartridge is available as a replacement for the cartridges in the Shure Crystal Microphones of the 707A and 708A series. High output −48 db. below 1 volt per microbar. Cartridge supplied with rubber mounting rings and mounting instructions.
Model R7—Net Each...................**$4.65**

CARBON CARTRIDGE



Model R10 Carbon Cartridge used in "CB," "100," and "120" Series Carbon Microphones. Rubber mounting rings. Easy to install.
Model R10—Net Each.................**$4.80**

TAKE-APART STAND

Model S34B. Handy low-cost stand. One twist of handle locks it securely in base for use as a table stand. Metal base, wood handle. Metal top threaded ⅝"—27. Height overall 6^11/16". Base diameter 4½". Length of handle 5⅞". Shipping weight 1 lb. Net Each........**$1.98**

Model A41B—Microphone handle only. Threaded ⅝"—27. Net Each...............**81c**

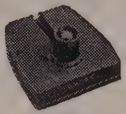
CABLE TRANSFORMER

Used in conjunction with Shure Models 55, 55S, 556, 556S, and 51 Dynamic Microphones, which employ the impedance matching switch. Matches 35 to 50 and 150 to 250 ohm microphones to high impedance amplifier input. 2-foot cable.
Model A86A—Net...**$10.50**

MODERN DESK STAND

Model S36A.—Fits Shure connector-type microphones, concealing plug in base. Ideal for use with A88A Grip-to-Talk Switch. Adapter provided for other type microphones.
Model S36A—Net Each.................**$3.60**

SPECIAL DESK STAND

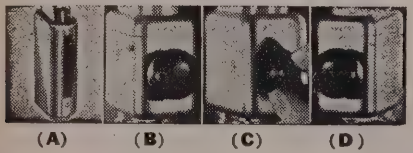


Model S33—Designed for use with the new Broadcast "300" Gradient[1] Microphone. Features slotted back for neat placement of cable.
Net Each.............................**$9.00**

ACCESSORIES FOR "777"

Model S38 Stand—Heavy die-cast base with metal screw machine stud for connecting microphone adapter to stand base. Net **$1.98**
Model A25 Swivel Adapter—Features a long-life, high-quality swivel connector. Lined with nylon sleeve—for noise-free and scratch-free insertion and removal of mike. Net Each....**$3.30**

SHURE MICROPHONE SWITCHES



Model A88A. (Fig. A) This rugged heavy-duty switch employs a long life, leaf-type switch element that withstands the most severe field requirements of paging and dispatching systems. Rich satin chrome. Shipping Weight, 1 lb. Net....................**$7.05**

ON-OFF PRESS-TO-TALK SWITCHES

Model A84B. (Fig. B) Momentary "On-Off" switch. Press-to-talk bakelite disc. Net Each.......................................**$5.10**
Model A83B. (Fig. C) Rotary-type "On-Off" switch. Quickly attached to any cable-connector type Shure microphone. Internal plug establishes connections. Bakelite arrow knob. Net. .**$5.10**
Model A85C. (Fig. D) Momentary Relay-Type switch. Press-to-talk bakelite disc. Must be used with two-conductor shielded cable. Standard Shure cable-connector receptacle. Satin chrome finish. Net Each...................................**$6.45**

PHONOGRAPH PICKUP NEEDLES

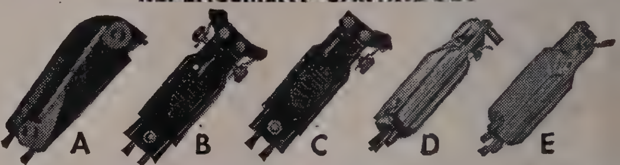
Model No.	Description	Net Each	Model No.	Description	Net Each
A10S	Sapphire†	**$2.10**	**A63MG**	MG Osmium	**.90**
A10DS	††	**16.80**	**A64MG**	MG Osmium	**1.20**
A52A	Std. Osmium	**.90**	**A65MG**	MG Sapp.	**1.50**
A53MG	MG Osmium	**.90**	**A66U**	AP* Osmium	**.90**
A56U	*AP Osmium	**.90**	**A67U**	AP* Sapphire	**1.50**
A58U	AP Osmium	**.90**	**A68D**	Cut.-Stellite	
A61A	Std. Sapp.	**1.50**		P.B.-Osmium	**1.50**
A62A	Std. Osmium	**.90**			

*Shure "Unipoint" all-purpose needle. †Std. and MG Sapphire. ††MG Diamond, Std. Sapphire.

NEW MUSIC LOVER'S CARTRIDGE

Three-speed ceramic cartridge that brings a new dimension to tone quality. Equipped for mechanical interchangeability with magnetic pickups and for direct connection to magnetic inputs of amplifiers not yet provided with constant displacement inputs. "Twin-Lever" needle shift lowers mass and eliminates needle interaction. Response smooth, 30-15,000 cps, gradual roll-off between 10,000 and 15,000 cps. Output .4 v. at 1000 cps without network, 25 mv. with network (supplied). Compliance, .0000015 cm/dyne. Tracking Force, 5 to 8 grams.
Model ML44(SS)—.001 and .003 sapphire needles. Net Each.......................................**$8.37**
Model ML44(DS)—.001 diamond, .003 sapphire. Net Each.......................................**$23.37**
Model ML44(D)—.001 and .003 diamond needles. Net **34.74**

REPLACEMENT CARTRIDGES



FINE GROOVE CARTRIDGES FOR 33-1/3, 45 RPM RECORDS

Model No.	Illus.	Output Level	Needle Force	Response To	Needle No.	Net Each
W21F*	C	1.5 v.	6 grams	10,000 cps	A63MG	**$ 4.65**
W31AR	A	2.1 v.	7 grams	7,500 cps	A53MG	**3.90**
WC31AR	A	.87 v.	7 grams	7,500 cps	A53MG	**3.90**
W53MG	E	1.3 v.	6 grams	8,500 cps	A64MG	**5.10**

TURNOVER CARTRIDGES FOR 33-1/3, 45, 78 RPM RECORDS

Model No.	Illus.	Output Level	Needle Force	Response To	Needle No.	Net Each
WC10#	.....	.78 v.*	7 grams	12,000 cps	A10S	**$ 5.70**
WC10D#	.....	.78 v.*	7 grams	12,000 cps	A10DS	**20.40**
W22A	B	1.2 v. MG 1.4 v. Std.	8 grams	10,000 cps	A65MG A61A	**6.30**
W22AB	B	1.2 v. MG 1.4 v. Std.	8 grams	10,000 cps	A65MG A62A	**5.70**
W22ABT	B***	1.2 v. MG 1.4 v. Std.	8 grams	10,000 cps	A65MG A62A	**6.00**
WC24	B	0.6 v. MG 0.6 v. Std.	8 grams	7,000 cps	A53MG A52A	**5.25**
WC24-T	B***	0.6 v. MG 0.6 v. Std.	8 grams	7,000 cps	A53MG A52A	**5.55**

ALL-PURPOSE SINGLE NEEDLE CARTRIDGES

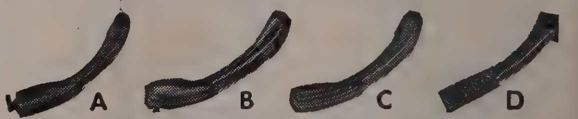
Model No.	Illus.	Output Level MG	Output Level Std.	Needle Force	Response To	Needle No.	Net Each
W26A	C	.87 v.	1.0 v.	8 grams	8,000 cps	A67U	**$5.10**
W26B	C	.87 v.	1.0 v.	8 grams	8,000 cps	A66U	**4.50**
W36B	A	2.3 v.	2.5 v.	9 grams	7,000 cps	A56U	**3.90**
WC38	A	.9 v.	.92 v.	9 grams	10,000 cps	A58U	**3.90**
W66B	D	2.0 v.	2.3 v.	8 grams	4,500 cps	A66U	**4.20**
W70	.....	3.0 v.	3.8 v.	10-15gr.	5,000 cps	None	**2.97**

STANDARD CARTRIDGES FOR 78 RPM RECORDS

Model No.	Illus.	Output Level	Needle Force	Response To	Needle No.	Net Each
W23B	C	1.1 v.	6 grams	8,000 cps	A62A	**$4.65**
WC33B	A	.92 v.	9 grams	7,000 cps	A52A	**3.90**
W56N**	E†††	4.3 v.	1 ounce	10,000 cps	A68D	**5.10**
W58HS†	E	1.6 v.	1 ounce	6,000 cps	None	**3.93**
W60HS†	D	1.8 v.	1 ounce	4,500 cps	A62A	**5.10**
W68‡	.....	1.6 v.	1 ounce	4,500 cps	A62A	**4.50**
W78‡	.....	4.0 v.	1 ounce	6,000 cps	None	**3.33**

*With .453 Mount for Oak Changer. **Cutter-Cartridge for Wilcox-Gay "Recordette." †"Humi-Seal" Metal Wrapped Rochelle Salt Crystal Ideal for Tropical Areas. ***Similar to Fig. B, except that it includes Turnover mechanism. †††Similar to Fig. E, except that it has a bifurcated needle for both cutting and play back. Note: Wherever "C" appears in model number, it indicates a Ceramic cartridge. ‡Dual weight cartridge (weight slug, 25 grams), without slug, weighs 12 grams. **W78** complete with capacitor, output 2.0 volts, without cap., 4.0 volts. #Not a turnover type, "Twin Lever" system. *1.0 v. standard.

PHONOGRAPH PICKUPS



STANDARD FOR 78 RPM RECORDS

Model No.	Illus.	Output Level	Needle Force	Response To	Shure Cart.	Net Each
92H	D	3.5 v.	1 oz.	5,000 cps	W42H	**$3.30**
99DV	A	4.0 or 2.0 v.*	1⅛ oz.	6,000 cps	W78†	**5.10**

*Dual Voltage Cartridge 4.0 V without Condenser 2.0 V with Condenser. †Remove Weight-slug.

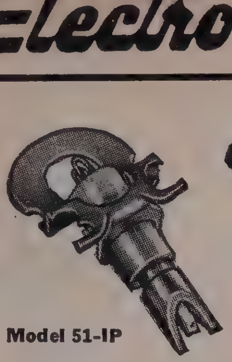
TURNOVER FOR 33-1/3, 45, 78 RPM RECORDS

		MG	Std.				
901D	A	1.2 v.	1.4 v.	7 grams	10,000 cps	W22AB	**$9.75**

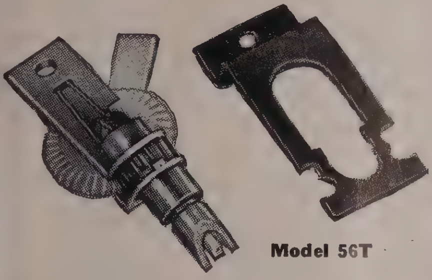
SINGLE-NEEDLE ALL-PURPOSE FOR 33-1/3, 45, 78 RPM RECORDS

92U	D	2.0 v.	2.3 v.	8 grams	4,500 cps	W66B	**$5.85**

Electro-Voice Transducers, Cartridges


Model 51-1P

Models 51, 52, 53, 56


Model 56T

NEW POWER POINT PHONOGRAPH TRANSDUCERS

Power Point is not a cartridge, not a needle, but a new concept which combines the functions of both to give widest range with lowest distortion and minimum record wear. Using one or two sapphire* playing tips connected directly to the ceramic element, this unique design results in high compliance with excellent tracing ability. After quick mounting mechanism installation, replacement is easy slip-out, slip-in operation. Response flat from 20 cps to beyond 10 kc, usable to 17 kc; output 1 volt; tracking force 5 to 8 grams. Die cast nylon case ¾″ long, ¼″ diameter.

FOR 45 AND 33⅓ RPM

Model 51—Transducer only. With one .001″ sapphire tip. Net Each.....**$2.40**
Model 51-1—Similar to Model 51 except has two .001″ sapphire tips. Net..**$3.00**
Moel 51-1P—Model 51-1 and Model PFT-1 fixed mounting mechanism. Net Each.....**$3.30**

FOR 78 RPM

Model 53—Transducer only. With one .003″ sapphire tip. Net Each....**$2.40**

FOR 45, 33⅓ AND 78 RPM

Model 52—Transducer only. With one .0023″ sapphire tip. Net Each....**$2.40**

Model 56—Transducer only. One .001″ sapphire tip and one .003″ sapphire tip. Net Each.....**$3.00**

Model 56-T—Model 56 and Model PT-1 turnover mounting mechanism. Net Each.....**$3.60**

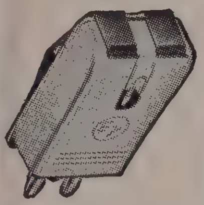
Fixed and turnover mechanisms have 7/16″, ½″ and ⅝″ mounting hole centers. All necessary hardware is included for simple, quick installation.

Model PFT-1—Fixed mounting mechanism. Accepts any model Power Point transducer. Net Each.....**30c**

Model PT-1. Lever-action turnover mounting mechanism. For use with Model 56 transducer. Net Each.....**60c**

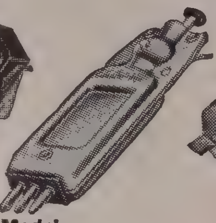
*Superior Synthetic.

ELECTRO-VOICE PHONO-CARTRIDGES

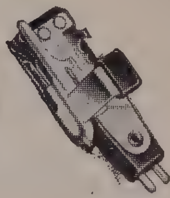

Models 12 & 14

Models 32, 33, 42, 43

Models 34 & 44


Model 60

Model 16TT


Model 47

Models 46T & 96T

***6 Basic Preferred Types will make over 92% of all Cartridge Replacements**

MODEL 12 CRYSTAL CARTRIDGE FOR 78 RPM*

1.5 volt output. Weighs 1/5 ounce. Tracks perfectly with less needle force. With Snap-In Holder and mounting hardware. For standard ½″ hole centers. With O3 Osmium needle. Net.**$4.50**

MODEL 32 CRYSTAL CARTRIDGE FOR 78 RPM

For longest record life, lowest needle talk, greatest stylus life. Response to 10,000 cps. Output 1.8 volts, usable in most radio-phonos. ½″ mounting. With O3 Osmium needle. Net....**$3.90**

MODEL 42 CERAMIC CARTRIDGE FOR 78 RPM

Ceramic generating element for complete moisture protection. Output 1 volt. Bracket for mounting in arms with ½″ centers. Long-lasting in extremely hot humid climates.
Model 42—With O3 Osmium needle. Net Each.........**$3.90**

MODEL 14 CRYSTAL CARTRIDGE FOR 45 AND 33-1/3 RPM

Gets all the music from extended range fine groove records. Response free from peaks and distortion, 30 cps to 10 kc. Requires no preamplifier. Output, 1 volt.
Model 14—With O1 Osmium needle. Net Each.........**$4.50**
Model 14S—With S1 Sapphire needle. Net Each........ **5.10**

MODEL 34 CRYSTAL CARTRIDGE FOR 45 AND 33-1/3 RPM

Output, 1.25 volts. Mounting bracket has ½″ and ⅝″ hole centers. Ideal replacement. RCA-type "45" and Col. "LP".
Model 34—With O1 Osmium needle. Net Each.........**$3.90**
Model 34S—With S1 Sapphire needle. Net Each........ **4.50**

MODEL 44 CERAMIC CARTRIDGE FOR 45 AND 33-1/3 RPM*

Output, 0.8 volt. For arms with ½″ or ⅝″ hole centers.
Model 44—With O1 Osmium needle. Net Each.........**$3.90**
Model 44S—With S1 Sapphire needle. Net Each........ **4.50**

MODEL 33 CRYSTAL FOR 78, 45 AND 33-1/3 RPM

Special needle plays all speeds. 2.3 mil tip. Output, 1.25 volts on microgroove. 1.8 volts on 78 rpm. Bracket has standard ½″ hole centers. With O2 Osmium needle. Net Each........**$3.90**
Model 33S—With S2 Sapphire needle. Net Each........ **4.50**

MODEL 43 CERAMIC FOR 78, 45 AND 33-1/3 RPM

Ideal for replacement in hot, humid climates. Output, 0.8 to 1 volt. Mounting bracket with ½″ hole spacing.
Model 43—With O2 Osmium needle. Net Each.........**$3.90**
Model 43S—With S2 Sapphire needle. Net Each........ **4.50**

MODEL 16TT CRYSTAL TWIN TILT*

Plays all three speeds with a one-piece, twin-tip needle without weight change. Complete with TILT mechanism. Output, 1 volt on each tip. Exact replacement for Webcor cartridges. With Osmium 3-mil. and Sapphire 1-mil. tips. Net Each..............**$6.00**
Model 16—Same, less TILT. Net Each................ **5.40**

MODEL 46T CERAMIC TURNOVER CARTRIDGE*

Separate needles for fast and slow speed records. Needles isolated from one another allowing correct response on each. Output, .8 volt on each needle. Positive-acting turnover mechanism. Mounting plate supplied for LQD-type cartridges. With 3-mil Osmium needle and 1-mil Sapphire needle. Net Each............**$6.00**
Model 46—Same, less harness. Net Each................ **5.40**

MODEL 96T CRYSTAL TURNOVER

For all three speeds. Output is 1 volt on each needle. Incorporates all construction geatures of 46T. Net Each.............**$6.00**
Model 96—Same, less harness. Net Each................ **5.40**

MODEL 60 CRYSTAL DUO-VOLT BIMORPH CARTRIDGE*

Uses any standard 3-mil, 1-mil or all-purpose needle (not supplied). Output, 4 or 2 volts on LP, 6 or 3 volts on 78 rpm. No soldering, no accessories required. ½″ mounting centers, aluminum case. For varied replacement needs. Less needle. Net....**$2.97**

MODEL 50 BIMORPH CRYSTAL CARTRIDGE

High level cartridge, supplied less needle. Use with any 1-mil, 3-mil or all-purpose needle. Output level with straight shank is 2.5 volts. Aluminum case. Less needle. Net Each.................**$2.70**

MODEL 47 CERAMIC FOR 78, 45 AND 33-1/3 RPM*

New "push-pull" needle change allows compensated response for ORTHO-RIAA recording curves using completely isolated 1-mil stylus. 3-mil needle easily, accurately positioned by unique "dual-slide" action. Moisture-proof, wide-range ceramic element. 0.6-volt output. ½″ centers and 7/16″ mounting. With 3-mil Osmium, 1-mil Sapphire styli. Net Each..........................**$5.40**

REPLACEMENT NEEDLES

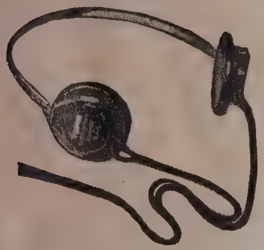
E-V No.	Tip	Description	Net
O3	Sgle.	.003″ osmium for 12, 32, 42, 96, 96T	$0.90
S3	Sgle.	.003″ sapphire (same models as O3)	1.50
O2	Sgle.	.0023″ osmium for 33, 43	.90
S2	Sgle.	.0023″ sapphire for 33, 43	1.50
O1	Sgle.	.001″ osmium for 14, 34, 44, 96, 96T	$0.90
S1	Sgle.	.001″ sapphire (same models as O1)	1.50
SO13	Twin	.001″ sapphire, .003″ os. (16, 16TT)	1.80
O13	Twin	Same as SO13, both tips osmium	1.50

723XN-55A

Headsets and Intercom Systems

TRIMM HEADSETS AND ACCESSORIES

FEATHERWEIGHT



World famous "quality" headset. Weight only 4½ oz. 5 ft. moisture-proof cord. Bakelite shell and cap. Magnet of highest grade steel. Coils impregnated. Diameter 2 3/16". 6 ft. moisture proof cord. Shipping weight 9 oz.

No. 100—Standard Resistance with adjustable nickel plated steel headband. Net Each..... **$6.60**

No. 104—Standard Resistance with fabric covered wire headband. Net Each.. **$6.60**

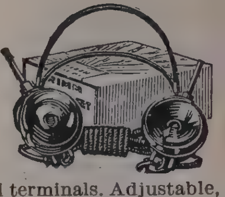
No. 106—24,000 ohm imped. Spec. Amateur, with adjustable nickel plated steel headband. Net Each................ **$6.60**

No. 107—24,000 ohm imped. Spec. Amateur, with fabric covered wire headband. Net Each.. **$6.60**

No. 610—Extra diaphragm for above 1 13/16" dia. Net Each. **$0.15**

No. 600—Featherweight bakelite caps for above. Net Ea.. **$0.45**

PROFESSIONAL



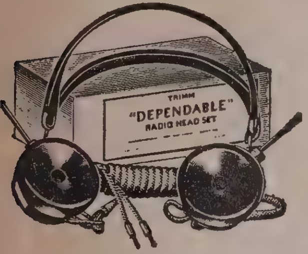
The original Trimm headset, now further improved. Recommended for general radio communication, electronic testing applications, etc. Bakelite shell and cap. Mercerized cotton, 5 feet braided, tinsel cord. Entirely enclosed terminals. Adjustable, vinyl plastic covered, double wire headband. Standard DC ohmage per pair 4, 78, 500, 2M, 3M and 4M ohms (30, 600, 4M, 12M, 20M and 28M impedance). Single units have one-half of ohmage listed. 4M ohm DC supplied if ohmage not specified on order.

No. 70—Double (specify ohmage). Net Each.......... **$3.48**

No. 72—Single (No. 695 headband, specify ohmage). Net. **$1.98**

No. 76—Single, designed for inter-office communication equipment use. Has eyelet attached to side of shell for hanging onto hook when not in use. No headband. Net Each.............. **$1.98**

DEPENDABLE



Best grade low priced headset. 5 ft. cord. Bakelite shell and cap. Plastic covered wire headband. 2,000 ohm d. c. resistance. Forged chrome magnets. Recommended for general radio communication service, also widely used in institutional centralized radio systems. Ship. weight 13 oz.

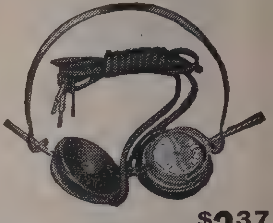
No. 65 Net........ **$2.88**

No. 67—Same as above, single phone only. 1000 ohms, 9 oz. Net Each.. **$1.56**

No. 612—Extra diaphragms for above 2 1/8" dia. Net Each. **.12**

No. 605—Replacement bakelite caps. Net Each........ **.39**

ACME



A superior low-cost headset. Recommended for crystal sets, code training, etc. Black bakelite shell and cap. Chrome steel magnet. Double headsets, braided 4½ feet tinsel cord. Single headsets, all rubber 4½ foot cord. Enclosed terminals. No. 25 and 27, adjustable, flat steel headband. No. 24, adjustable, tubular vinyl plastic covered double wire headband.

No. 24—Double (2M ohms). Net Each.................. **$2.37**

No. 24—Double (4M ohms). Net Each.................. **$2.46**

No. 25—Double (2M ohms). Net Each.................. **2.01**

No. 25—Double (4M ohms). Net Each.................. **2.19**

No. 27—Single (1M ohms). Net Each.................. **1.20**

No. 27—Single (2M ohms). Net Each.................. **1.32**

No. 24-8—Double (4 ohm for attachment in voice coil circuits) plus standard phone plug. Used on radio and TV attachment kits. Net Each.............................. **$3.00**

GROUP HEARING AID COMPONENTS

FEATHERWEIGHT EARPHONES

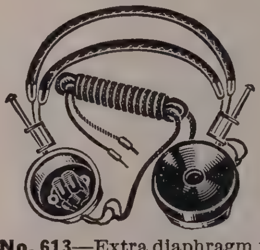
The most widely used earphone for group hearing aid systems in churches, theatres, mortuaries, etc. Unit weighs 1¼ oz. Cord, 6 ft. Plastic shell and cap. Available in low (**up to 50 ohms**) and high impedances (**up to 500 ohms**). Lorgnette handle types. Extensible handle has plastic grip.

Single earphones with headbands are used in theatres exclusively, and in some church and mortuary systems.

No. 110 Single earphone with headband. (**Specify low or high impedance.**) Net Each........ **$4.29**

No. 120 Single earphone with lorgnette handle. (**Specify low or high impedance.**) Net Each..... **$4.95**

REX



Low cost bi-polar type headset. Weight 7 oz. 4½ ft. cord. Bakelite cap, polished aluminum shell. Plastic covered wire headband. Enclosed terminals. High sensitivity. Recommended for crystal sets, code training, institutional radios, etc.

		Net Each
No. 30	2M ohm d.c. dble.	**$2.46**
No. 32	1M ohm d.c. sgle.	**1.44**

No. 613—Extra diaphragm for above 1 13/16" dia. Net Each. **$0.12**

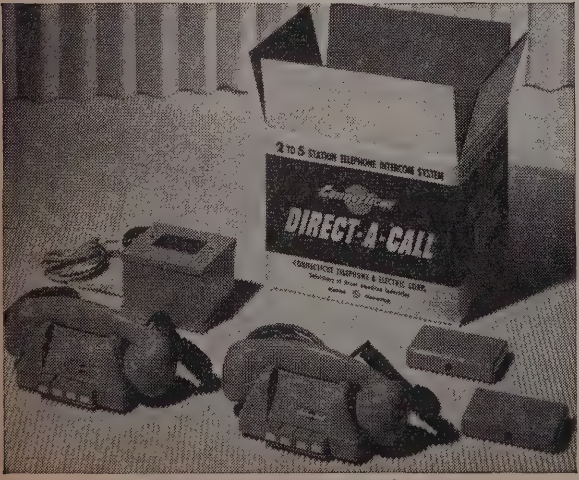
No. 607—Replacement bakelite caps—Net Each........ **.30**

EAR CUSHIONS

Sponge rubber ear cushions provide maximum ease in wearing headsets. Fit trim Featherweight, Acme, etc.

No. 654 Net.. **90c**

CONNECTICUT DIRECT-A-CALL INTERCOM SYSTEM



2 TO 5 STATION TELEPHONE INTERCOM SYSTEM
Connecticut
DIRECT-A-CALL
CONNECTICUT TELEPHONE & ELECTRIC CORP.

Components for 2-Station System

DIRECT-A-CALL is a complete inside private telephone system for inter-office use by from 2 to 5 stations. It makes possible private telephone-type intercommunication without the noise of amplifier-type intercoms that limit the use to non-private messages. In addition it frees the city phone system from use for inter-office messages as well as the cost of added extensions for inter-office use only. Individual stations are distinctively designed, compact telephones that occupy only 4 x 6 in. space on top or on the side of the desk. They are made of virtually unbreakable Hercocel—a new super-strength cellulose plastic, in a warm gray tone to blend with any color scheme. An internal magnetic switch closes the circuit as the receiver is lifted, making pop-up buttons unnecessary; also makes possible vertical or horizontal installations. Capsule-type transmitters and receivers give the high clarity and transmission quality equal to city telephone systems. Four name buttons on the base of each telephone set activate direct signals to the person to be called. Individuals may be called with complete privacy, or the Direct-A-Call common circuit may be used for conference calls to all stations on the system. Only a screwdriver is required for installation, no soldering. Wires are color-coded for foolproof connections. Phones connected by 8-conductor ribbon wire only ½ inch wide and so thin it goes under rugs and can be glued in place along a molding.

Telephone Set with 5-ft. Terminal Cord—Order 2 to 5 sets per system. List Price.............................. **$29.50**

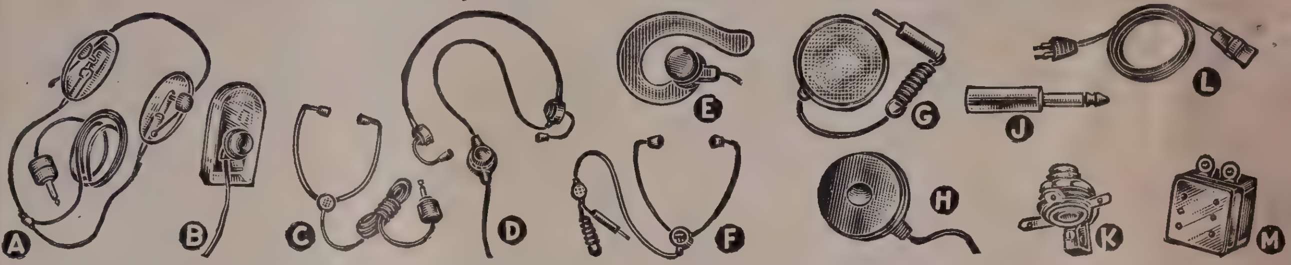
Terminal Block—Order 1 per phone. List Price........ **$ 2.50**

Plug-in Power Supply—117 volts. 1 per system. List... **19.50**

8-Wire Flat Ribbon Cord—List Price per Foot........ **.15**

Headsets and Telephones

TELEX HEADSETS, PILLOW SPEAKERS AND EQUIPMENT



NEW TELE-SET (FIG. A)

Over-the-head style, weighs 1.6 ounces, fully adjustable. Tiny, stainless steel headband, two thin plexiglass air cushions. Receiver located in plug, sound piped thru hollow tubing to cushions. Ball and swivel joint permit perfect adjustment to ear. Will not slip or pinch.
Telex No. 8825 (128 ohms) or **9316** (2000 ohms) Net Ea.. $8.70

NEW TELA-EAR (FIG. B)

Slips over ear. Light, sanitary, crystal-clear sound shield transmits sound directly into ear without touching it with a button receiver. Single-cord connection, excellent sensitivity. Weighs less than one ounce. Comfortable listening level at 50 microwatts, maximum input, 25 milliwatts.
Telex No. 8560 (128 ohms) or **8561** (2000 ohms)—Net Each $7.50
Unit Only, **No. 9330** (128 ohms); **9331** (2000 ohms)—Net. $5.34
Receiver Only, **No. 4677** (128 ohms); **4698** (2000 ohms) Net 4.14
No. 4315 Earmuff—Net Each........................ 1.20

DYNASET (FIG. C)

Dynamic under-the-chin headphone covers speech and music and is excellent for telecasting and radio monitoring. Anodized aluminum tone arms. Sound conducted thru long life flexible tubing. Weighs 1.25 ounces. Sensitivity 105 db above .000204 dynes/cm² for one milliwatt power input. Impedance 6, 2000, 10,000, 50,000 ohms. Exchangeable ear tips.
Telex No. 6701 Dynaset—Net Each.................... $8.85
Telex No. 6710 Eartips—Net Each.......................9c

TWINSET (FIG. D)

Lightest (1.6 ounces) twin magnetic-receiver headset ever made. Has CAA approval. Plastic ear tips adjustable to fit ear opening snugly. Single cord. Rugged nickel and tenite construction, may be coiled up and stuffed into pocket. Fully adjustable to any head. Sensitivity 101 db above .000204 dynes/cm² for 10 microwatts input. With 5 ft. cord, standard phone plug.
Telex No. 3791—64 ohms impedance. Net Each....... $10.14
Telex No. 3775—1000 ohms, for Pilot use (CAATC 3R2-1). Net Each...........................$10.14
Unit Only, **No. 3781** (64 ohms); **3776** (1000 ohms). Net...8.04
Telex No. 3756—Twinset eartips. Net Each................9c

EARSET (FIG. E)

A high fidelity earphone that slips onto the ear. Weighs only ½ ounce. Uses sealed, rust-proof receiver. With 5′ cord, standard phone plug. Comfortable listening at .3 mw.
Telex No. 4670 (128 ohms) or **4680** (2000 ohms)—Net Ea. $6.78
Unit Only, **No. 4650** (128 ohms) or **4660** (2000 ohms). Net. $4.68
Receiver Only, **No. 4651** (128 ohms); **4661** (2000 ohms). Net 4.14
Telex No. 4652—Plastic earframe only. Net Each.........48c

MONOSET (FIG. F)

Dependable and superior performance. Stethoscope design. Sends signals directly into ear, blocking out background noise. Choice of standard cord or with built-in volume control. Sensitivity 88 db above .000204 dynes/cm² for 10 microwatts input. Weighs 1.2 ounce. Sealed magnetic receiver, removable plastic eartips, 5′ tinsel cord with standard phone plug.
Telex No. 4600 (128 ohms); **4610** (500 ohms); **4625** (2000 ohms). Net Each........................ $7.50
Above unit, with 5′ Volume Control cord with standard phone plug, available in any of above impedances. Net. $10.26
Unit Only, no cord. Any impedance listed above, Net....$5.40

NEW DYNAMIC PILLOW SPEAKER (FIG. G)

Mellow and smooth tonal quality. Durable stainless steel housing, shock-absorbing polyethylene ring around edge. 3¾″ diam., 1⅛″ thick, weight 4 oz. without cord. Comfortable listening level with 1 mw. input to speaker. Maximum power level, ½ watt. With 5′ cord and standard phone plug.
Telex Model 54 (**No. 8110**)—3.2 ohms. Net Each........ $6.12
Telex Model 55 (**No. 8130**)—10,000 ohms. Net Each.....$7.26

RADIO PILLOW SPEAKER MODEL "R" (FIG. H)

Palm-sized, weighs only 1.1 oz., easily sterilized in alcohol. Completely shock-proof. Detachable flexible cord. Sensitivity 1 mw. for comfortable listening. Freq. range 50-4000 cps. 11/16″ thick, 2¼″ diameter. With 5′ cord and plug.
Telex No. 4500 (128 ohms) or **4530** (2000 ohms). Net Ea. $6.42
Unit Only, **No. 4501** (128 ohms) or **4531** (2000 ohms). Net $4.32

SUBMINIATURE JACK AND PLUG COMBINATION (FIGS. J AND K)

Closed circuit combination, just ⅓ the size of previous models. Overall length of straight plug, 1 7/32″ x ¼″ in diameter, can be used with all miniature cordage. Jack can be mounted on any panel up to ⅛″ thickness.
Telex No. 9210—Miniature straight plug. Net Each..... 36c
Telex No. 8570—Closed circuit panel mounted jack. Net....24c
Telex No. 9220—Closed circuit chassis mounted jack. Net..36c
Telex No. 9240—Open circuit panel mounted jack. Net.....36c
Telex No. 9250—Open circuit chassis mounted jack. Net....36c

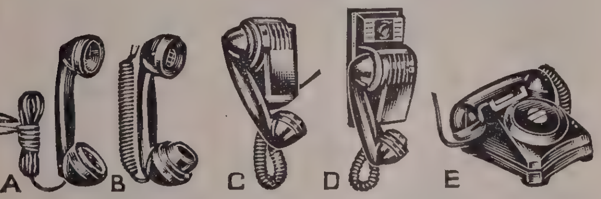
FIVE-FOOT EXTENSION CORD (FIG. L)

Just snap this extension cord to the standard Telex 5′ cord. Neutral gray color to match standard Telex cords.
Telex No. 8555—Net Each........................ $2.10

"MINI-MIKE" MODEL 100 (FIG. M)

New speaker-microphone houses a dynamic speaker and Telex microphone in a case only 1″ x 1″ x ¾″. Miniature external transformer available for matching to grid circuits. Sensitivity 52 db below 1 volt/dyne/cm² with matching transformer. Sensitivity of speaker, 124 db with 10 mw. power input. Impedance, 10 ohms. Weighs approximately 1⅓ oz.
Telex Model 100 "Mini-Mike" (No. 9155)—Net Each... $3.60
Telex No. 8918 Matching Transformer—Net Each.....$2.28

WHEELER SOUND-POWERED TELEPHONES



FEATURES OF THESE SYSTEMS

No batteries; no external power source; no rust or corrosion; no fire or shock hazard; no maintenance costs. Clear, sharp bell signal. Fidelity of speech is outstanding. No frying or rattling sounds. Made of impact-resistant plastic parts. High quality switch contacts; alnico permanent magnets; moisture resistant; retractible cord.

FIG. A—MODEL SPT-102 TELEPHONE HANDSET

Operates over twisted pair cable or single wire, ground return circuit. Connect as many as 12 units in parallel. Complete with 3½-ft. cable and test clips. Shipping Weight 1½ lbs. Net Each.............................. $9.62

FIG. B—MODEL SPT-123 HI-LEVEL HANDSET

Extra-sensitive for use in areas of high background noise. Also uses two-conductor twisted pair cable. Net Each.......$10.78

MODEL SPS-305 HANDSET HOLDER ONLY

(See Fig. C). Mounts on wall and includes switch hook and terminal board. For use with SP-102 and SPT-123 handsets. 2⅞″ x 5⅝″ x 3″. Shipping Weight, 1½ lbs. Net Each. $9.74
Model F-4182 Holder—Same as above, except includes bell. Has lever-operated built-in generator to ring bell at other end of line. Use up to 3 in common ringing system. Shipping Weight, 1½ lbs. Net Each..................................$11.69

FIG. C—MODEL SPS-205 TWO-PHONE SYSTEM

Includes two telephone instruments, each has lever-operated generator for ringing other station. Uses twisted pair wire. Neoprene-sheathed "Koiled Kord". Shipping Weight 7 lbs. System, Net........................ $43.89
Model SPS-205-3—Same features, 3 stations. Shipping Weight, 10 lbs. Net.................................$65.83

FIG. D—MASTER PHONE SYSTEMS

Selective ringing, common talking systems, composed of SP-205-MI Masters only or with SPS-205-SI Sub-stations. All-Master system components can communicate with any other master, or up to 6 Masters may be used for a conference. In Master-Sub-station systems, the Master can communicate with any Sub-station, Subs can call the Master and can speak to each other by having the Master call another Sub-station for them. Up to 6 stations may be used on a conference basis. **Cable Requirements:** 2 common wires and 1 additional wire for each station, between each station; Master-Sub system, 3 common wires and 1 wire from each Sub to Master.
Model SPS-205-MI Master Station—Shipping Weight, 5 lbs. Net.................... $36.96
Model SPS-205-SI Sub-Station—Shpg. Wt., 5 lbs. Net.$31.35

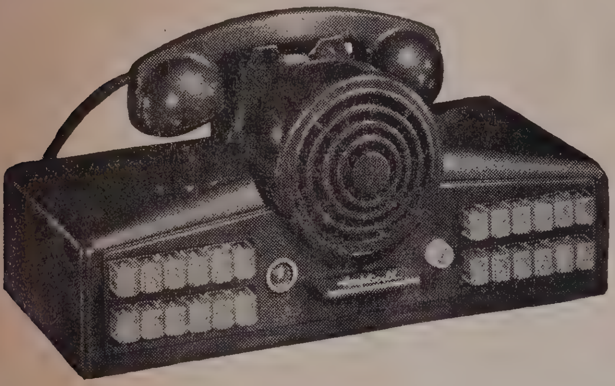
FIG. E.—MODEL SPS-405 EXECUTIVE-TYPE PHONE SYSTEM

Particularly suited to desk applications as a part of a system which includes wall mounting units as well. (Office to stockroom, etc.) Quality black plastic case encloses generator, ringer and handset. Uses 2-conductor twisted-pair cable. Complete with 8′ 2″, 2-conductor cable and 3 point terminal board with cover. Consists of two "Executive" cradle-type phones. Shipping Weight 7½ lbs. System, Net........................ $55.80
Model SPS-205, SPS-405—Consists of one SPS-205 wall mounting and one SPS-405 cradle-type phone. Per system, Net.$49.85

Rauland ELECTRONIC AMPLICALL Intercom

3400 SERIES DELUXE AC-MASTERS AND REMOTES

A single universal Master provides any type of intercommunication service. AMPLICALL "Talk-Listen" switch equipped with solid silver alloy contacts. Life tests prove that they will outlast the intercom system itself and that they have better than 10 times the life of conventional switches. Three 3400 Series Master stations are available with 6, 12 and 24 buttons respectively. Each of these three Master stations is available with or without Handset (illustrated). A streamlined wide bar type "Talk-Listen" lever assures positive, easy finger-tip control. Masters are shipped with 6-ft, multi-pair connecting cable and plug, completely wired and attached. All junction boxes are a combination receptacle and junction, reducing installation connections by ⅓ and permitting quick and easy exchange and transfer of Masters.



FEATURES

Lifetime Talk-Listen Switch—With solid silver alloy contacts which increase service life tenfold. **"New Busy" Signal**—This visual type "busy" signal indicates instantly when station being called is busy. Operates without additional wiring. **Increased Power Output**—Delivers over 100% more acoustic power output. Incorporates new, larger speaker. **Plug-in Type Masters**—Allow quick transfer or exchange of masters—reduces installation costs by one-third. **"Mute" Feature**—Assures elimination of possible cross-talk caused by amplifier pick-up. **Individual Locking Type Push Buttons**—Smooth acting, translucent plastic, slotted to take station identification. **Balanced Line Cable**—Permits use of unshielded twisted pairs for low-cost installation.

SPECIFICATIONS—3400 SERIES MASTERS

Cabinet—Two-toned Walnut plastic. **Size**—15″ wide x 9″ deep x 7½″ high, overall. **Tubes**—2-6AU6; 1-6AT5; 1-6AQ5; 1-6X4. **Power Supply**—117 volts, Ac, 28 watts. Busy Signal Pilot Light, NE51. **Shipping Weight**—15 lbs., except 3424 which is 16 lbs.

2100S AND 2405S REMOTES

Cabinet—Two-toned Walnut plastic. **Size**—10½″ x 5⅞″ x 6″.

EQUIPMENT AVAILABLE

3406 Master Station—6-position master including 6′ connecting cable and plug. With tubes. List Price....	$107.25
3406H Master Station—Same as above, except that it includes a Handset as illustrated. List Price..........	150.70
3412 Master Station—Same, but 12 position. List Price..................................	$121.00
3412H Master Station—Same as 3412 except that it includes a Handset as illustrated. List Price.........	$164.45
3424 Master Station—With 24 position. List Price..................................	$148.50
3424H Master Station—Same as 3424 except that it includes a Handset as illustrated. List Price.........	$191.95

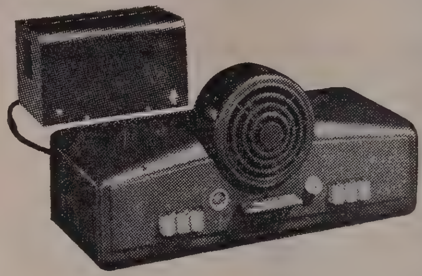
REMOTE STATIONS AND ACCESSORIES

2100S Remote Station—With origination switch and volume control. Shipping weight 7 lbs. List Price......	$18.50
2405S Remote Station—As above plus 5 position selector switch. Shipping weight 7 lbs. List Price......	$34.50
2300 Remote Station—Contains 8″ speaker, Imp. 45 ohms, with vol. control. Shpg. wt. 6½ lbs. List Price..	$26.95
2664A Remote Station—Re-entrant type reproducer, bell diam. 9″, Imp. 45 ohms. 8-10 watts. Wt. 7 lbs. List..	$40.75
2302S Switch Assembly—Use with 2300 Remote. List..	$4.25
2100M Remote Station—Same as 2100S less switch and volume control. List Price......................	$15.75
SW5 Selector—5-position selector and origination switch for use with 2300 remotes. List Price...........	$15.00
JB-112 Junction Box—1 required with each 3406 or 2312 Master Station. Shipping weight 1 lb. List Price....	$4.40
JB-113 Junction Box—1 required with each 3424 Master Station. Shipping weight 1½ lbs. List Price......	$6.60

2300 SERIES PAGING PLUS INTERCOM

The 2300 Series is a combined 20 watt paging system with two-way communications between the one master that can be used on the system and remote stations Type 2100S and Type 2300. Masters are available with 6, 12, 18 or 24 buttons. System with 2300 type remotes ideal as a single master and multiple remote intercommunication system where it is desired to call a large number of these remotes simultaneously.

Cable requirements are two twisted pairs between the master station and each remote that originates a call, a single pair of wires if remote does not originate a call. One JB-112 Junction Box required for 6 and 12 button models, one JB-113 Junction Box for 18 and 24 button models.



1171—1-pair cable —**$2.75** per C′ List.

1172—2-pair cable —**$7.15** per C′ List.

2300 Remotes — $26.95 List.

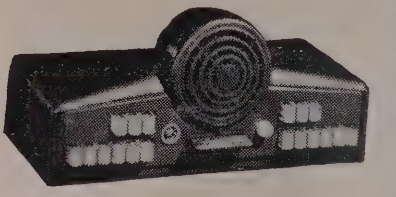
2306 Master— $159.50 List.

2312 Master— $170.50 List.

2324 Master— $192.50 List.

2200 SERIES AC-DC ALL MASTER SYSTEM

The 2200 Series Amplicall is an all-master private system similar to the 2400 Series except that the masters are AC/DC type. The 6, 12, 18 and 24 button models are available with or without handset. One JB-112 Junction Box required for each 6 or 12 button master and one JB-113 Junction Box for each 18 and 24 button master.

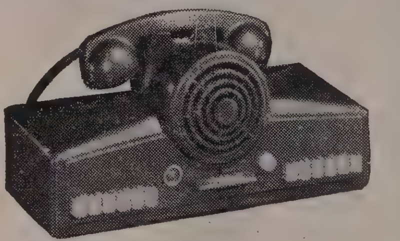


Cable requirements are one twisted pair for each master station on the system, all stations wired in parallel. The 2200 Series Masters carry the same prices as the 2100 Series Masters.

2100 SERIES AC-DC MASTER AND REMOTE

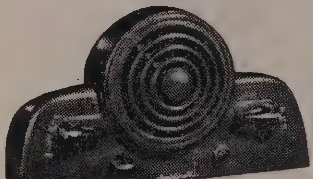
The 2100 Series system consists of one AC/DC type master, available with 6, 12, 18 or 24 buttons, for use with remote stations Type 2100S.

Cable requirements are two twisted pairs between the master station and each remote that originates a call, a single pair for two-way communication only. One JB-112 Junction Box required for 6 and 12 button models, one JB-113 Junction Box for 18 and 24 button models. The 2100 Series masters may also be easily converted in the field to all-master operation resulting in a non-private system but one that gives very speedy operation as station called answers without operating any controls. Cable required is one pair of wires for each station on the system.



2106 Master—List Price................................	$84.50
2112 Master—List Price................................	95.50
2112H Master—With handset, List Price.............	138.95

ECONOMY SYSTEMS



The 2105 Amplicall is an economy type master station designed to talk to up to five remote stations, Type 2100S, and can call all remotes simultaneously. No junction boxes required, cable requirements are two twisted pairs from the master to each remote station originating a call, one twisted pair for two-way conversation only.

2105 Master—List $57.50

2102 TWO-STATION SYSTEM

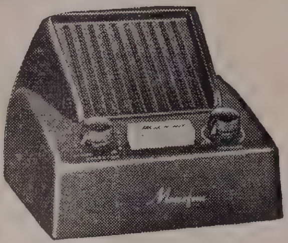
The 2102 Amplicall system is a two-station system made up of one master and one remote station; ideal for home use, office use or similar locations where two communication points only are required. One pair cable between the two stations for two-way communication—two pair cable if remote station is to call the master station.

2102 Two Station System—Less Cable. List Price... $64.50

Intercom Equipment

MASCO SOUND EQUIPMENT

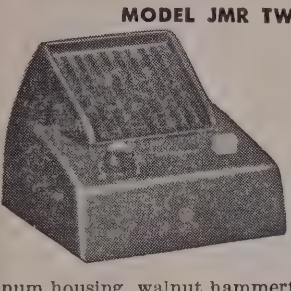
CAM SERIES—DELUXE SYSTEMS



Systems comprising CAM Series components can be set up in the all-Master and the Single Master all-Remote systems as described above. In addition CAM Systems can be made up of mixed Master and Remotes in whatever combination of 5 and 10-station Masters and Remotes is required. Paging horns and amplifiers may be incorporated in the systems. A telephone type handset may be used with any Master for private Master-to-Master conversations. **Power:** 3½ watts output; consumption, 27 watts per Master on 117 volts, AC. **Tubes:** 6C4, 12AX7, 6V6GT, 6X5GT. **Speaker:** 4″ Alnico 5 PM, 45-ohm voice coil. **Controls:** Master, Volume-Off-On; 5 or 10-station selector with Standby position; Push-Bar Talk-Listen switch with pilot light inside switch knob. Remotes, Push-Bar Talk-Listen on ACS and ACS-6, 6-position station selector on ASC-6, no controls on ACL. **Size:** 7⅜″ x 6¾″ x 5½″ cast aluminum case, dark brown baked enamel. U/L Approved.

CAM-5 Master—For 5 additional stations. List Price.. $\$74^{00}$
CAM-10 Master—For 10 additional stations. List Price. **$82.50**
ACS-6 Remote—With 6-position selector, push-bar. List **33.13**
ACS Remote—With push-bar talk-listen switch. List... **20.00**
ACL Remote—No controls. List Price................ **16.65**

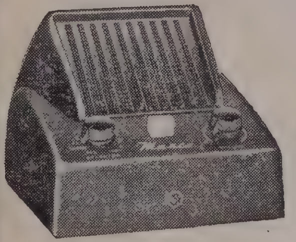
MODEL JMR TWO-STATION SYSTEM



Consists of a master and a remote station. Master has its own Volume Control with On-Off switch and has separate "Press-to-Talk" switch and On-Off pilot light. The remote may be used for private or non-private operation. Has its own "Press-to-Talk" switch that allows it to originate call to master or upon installation, may be wired for non-private operation. The JMR system can also be used as a two-way paging system. Natural voice reproduction, ample sensitivity. Unbreakable cast-aluminum housing, walnut hammertone finish. Electrical specifications and size same as IJM Series below. Supplied complete with 50 feet of three-wire cable and complete instructions.

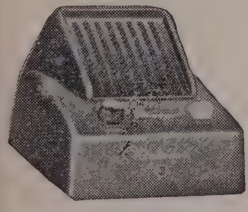
JMR Two-Station System—List Price............... $\$56^{70}$

IJM SERIES—ECONOMY SYSTEMS



An economy series that can be used as an all-Master system or an all-Remote (with 1 Master) system. In all-Master systems any station may call any other station without crosstalk even though up to 5 pairs of stations are talking simultaneously. In an all-Remote system the Master can call any or all remotes, but only JR Remotes can call the Master. JL Remotes can talk to the Master only when called. Remotes can call only the Master, not other Remotes. Paging horn and amplifier may be introduced into either system. **Power:** 2.5 watts output; 20 watts, 117 volts AC or DC consumption. **Tubes:** 12AX7, 50C5, 35W4. **Speaker:** 4″ Alnico 5 PM, 13-ohm voice coil. **Size:** 7⅜″ x 6¾″ x 5½″ high cast aluminum housing, dark brown baked enamel finish. **Controls:** Volume-Off-On, 5 or 10 station selector with Standby and All positions; Push-Bar Talk-Listen; JR Remotes have Push-Bar Talk-Listen switch. U/L Approved.

IJM-5 Master—For 5 additional stations. List Price... $\$45^{90}$
IJM-10 Master—For 10 additional stations. List Price. **$53.75**
JR Remote—List Price.......................... **16.20**
JL Remote—List Price.......................... **15.20**
Above models in White Baked Enamel. Add to List.... **2.00**

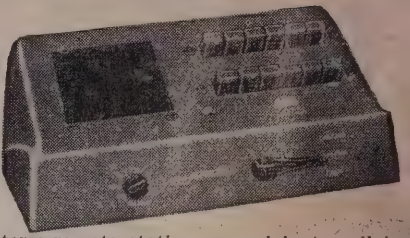


WIRELESS-FONE TWO-STATION INTERCOM

No wires or cable required—uses existing power lines. Just plug line cord into socket and Wireless-fone is ready to operate. Two-way communication on the same or different power circuits and over a considerable distance. Noise-Silencing Control, pre-set at the factory, keeps system quiet until actual use. Additional stations may be added. Pilot light On-Off indicator. No interference with radio sets, may be used on AC or DC current. **Voltage**—117 volts, AC or DC. **Power**—25 watts input, 2.5 watts output. **Tubes**—12AX7, 50C5, 35C5, 35W4 (rect.), 1N51 squelch diode. #47 pilot. **Frequency**—200 kc. **Speaker**—4″ Alnico V. 13 ohm voice coil. **Controls**—1-Volume Control with On-Off, Push-Bar Talk-Listen switch with Lock-In-Talk. 7⅜″ x 6¾″ x 5½″. Shipping Weight, 12 lbs. U/L Approved.

Masco Model WF-2—Two-station intercom. List Price $\$95^{00}$
Masco Model SSW—Single stations. List Price...... **$47.50**

CON-FER-PHONE SYSTEMS



Available in 6 and 12 station masters. Remote available with or without Call Switch and with 6 position master Station Selector. **Features:** for master-to master-to remote inter-mix; for master-to-master installation; for master-to remote installation; remote station for two-way conversation with masters; remote station can originate call to masters; masters may have personal remotes; push-button station selection; Press-to-Talk switch with dictate position on master; individual or group conversation; volume control with On-Off switch; On-Off indicating light; AC-DC operation; finished in attractive walnut hammertone. U/L Approved.

SPECIFICATIONS FOR MASTERS AND REMOTES

MASTER. Voltage—117 volts AC or DC. **Power Output**—2.5 watts. **Power Consumption**—30 watts. **Controls**—6 and 12 push-button station selectors, volume control with On-Off switch. **Tubes**—1-12SJ7 amplifier; 1-50L6GT beam power amplifier; 35Z5GT rectifier. **MASTER AND REMOTE. Speaker**—4″ Alnico V magnet, 13 ohm voice coil. **Finish**—Walnut Hammertone. **Dimensions**—Master: 12⅝″ x 7¼″ x 5½″ high. Remote: 6⅝″ x 7⅛″ x 5¼″ high. **Shipping Weight**—Master 8 lbs., Remote 3¼ lbs.

Masco Model JMP-6—(Not illustrated) 6 station master with tubes. List Price.......................... $\$71^{28}$
Masco Model JMP-12—(Illustrated) 12 station master with tubes. List Price.......................... $\$83^{16}$
Masco Model JL—Remote, less call switch. List Price.. **$15.20**
Masco Model JS—Remote, with call switch. List Price. **19.65**
Masco Model JS-6—Remote, with 6-position master Station Selector and call switch. List Price............ **$32.40**

"SMALL TALK" TWO-STATION INTERCOM SYSTEM

Both Master and Remote features, Press-to-Talk switches permitting calls to originate at either. Volume controlled at the Master. Low cost makes it ideal for home or small office use. Remote can be left open for baby sitting or dictating, or it can be closed for privacy but still able to receive calls from the Master. Plugs into 117 volts, 50-60 cycles AC-DC. **Power:** 20 watts consumption, 1½ watts output. **Tubes:** 12AT6 Voltage Amplifier, 50C5 Beam Power, 35W4 Rectifier. Speakers: Both 4″ Alnico V with 4-ohm voice coil. **Pilot Light:** NE-2 (neon). 4½″ x 4⅝″ x 4⅜″ metal cabinet in brown hammertone. U/L Approved. Shipping Weight System 6½ lbs.

Masco Small Talk System—With 50 ft. cord. List Price $\$29^{95}$
Masco Model ST—Additional Remote Station. List... **$10.00**

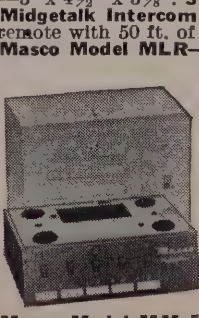
MIDGETALK TWO-STATION SYSTEM

MIDGETALK System consists of a Master and Remote Station—in beautiful mahogany finish. The Master has its own volume control with "On-Off" switch and has separate Press-to-Talk switch and "on-off" pilot light. The Remote may be used for private or non-private operation. Has its own press-to-talk switch that allows it to originate call to master or upon installation may be wired for non-private operation. The MIDGETALK system can also be used as a two-way paging system.

Voltage—117 volts AC or DC. **Power Output**—2.5 watts. **Power Consumption**—30 watts. **Tubes**—12SJ7, Voltage Amplifier; 50C5, Beam Power Amplifier. 35Z5GT Rectifier. **Speakers**—3″ Alnico V Magnet, 13 ohm voice coil. **Dimensions**—5″ x 4½″ x 5⅜″. **Shipping Weight**—7 lbs.

Midgetalk Intercom System—Complete with master remote with 50 ft. of cable and instructions. List...... $\$43^{15}$
Masco Model MLR—Additional Remote Station. List. **$14.40**

MODEL MM-5 MULTIPLIER



Converts Masco Midgetalk and Small Talk two-station systems into six-station Master and Remote systems. Can call any one or any group of up to five stations. Mounts under the Master unit. Two wiring methods: (1) Three-wire cable from Master to each Remote; or (2) a single cable from Master to all remotes starting with first station, ending with last (C-5 Cable for up to three Remotes, C-7 Cable for up to five Remotes). Multiplier uses no additional current. Brown metal 6¾″ x 5⅜″ x 2″ high. Sloped panel.

Masco Model MM-5—Multiplier. List Price......... $\$11^{00}$

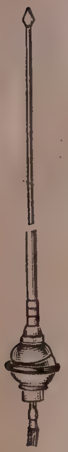
Intercom Cable—List Prices per Foot

C-3 per ft. **6½c** **C-5** per ft. **24c** **C-7** per ft. **29c**

Ward Auto Aerials and Mounts

DURA-RAMIC AERIALS

- **MADE OF FIBERGLAS***
- **SIX BRILLIANT COLORS**



Specially engineered for top performance, durability and corrosion resistance. Molded of Fiberglas*, millions of fibers of glass woven together, impregnated with resin and molded under terrific pressure. Completely protects the imbedded electronic wires from all bad effects of weather. Color impregnates the fiberglas*, cannot fade, rust or wear off. Will bend almost double without damage, almost indestructible. Thoroughly field tested. Aerials are 38″ long, and are mounted in the famous Ward "8" Ball. All available in six colors: Yellow, Brown, Red, Green, Blue, and White. State color when ordering.

Ward Model TGF-1—Front mount with 54″ lead-in included. Net Each...... $4.77

Ward Model TGR-1—Rear mount with 19½ ft. lead and extension. Net Each.. $7.17

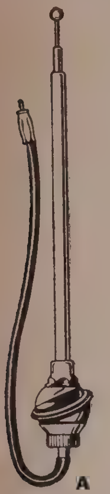
Ward Model TGT-1—"Gay Blades" twin rear mount. 19½ ft. lead and extension. 3-way connector, 5 clips. Net Each............ $11.97

Ward Model TGT-4—Midget version of TGT-1, identical except fiberglas* mast is 20″ long. Net per Set................. $11.10

Ward Model C-53—Replacement fiberglas* masts for standard Ward "8" Ball models. Colors as above. Net Each **$2.37**

Ward Model C-54—Same as C-53 but for replacement of masts on 1948-1955 Olds and Pontiac. Net Each..........**$2.37**

*R. T. M. O. C. F. Co.



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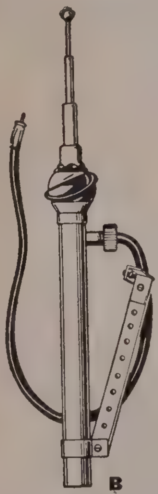


B

TOP COWL AND FENDER MOUNTS

Model TCF-3B Fig. (A). Smart looking "8 Ball", 22″ high collapsed. The answer to every installer's dream—one man installs in five minutes from the outside. 3 section, 56″, collapses to 22″. Ward 36″ coaxial lead cable included.
Ward Model TCF-3B. Net Each.. $3.54

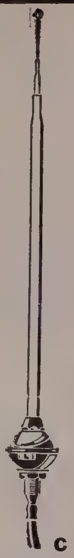
Ward Model TCF-3C—Same as TCF-3B, with 54″ lead. Net Each. $3.69

Ward Model TCT-2—3-sec. "8-Ball" midget twin. 27½″ extended.
Net per Set......................**$8.37**

Model TCF-2B—2-section version of TCF-3B. Net Each..............**$3.03**

Model DCF-3A Fig. (B). Phantom disappearing antenna—100% shielded against engine noises and completely water sealed. 3 section, 5¾″ exposed when collapsed. Universal swivel bracket for mtg. Ward 54″ coaxial lead cable included.
Ward Model DCF-3A—Net Each. $4.77

Ward Model TDT-2—3-sec. "Phantom" midget twin. 24″ extended.
Net per Set.......................**$9.30**



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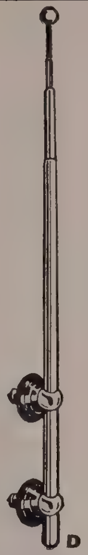

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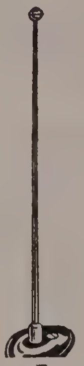

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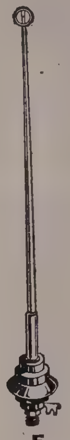


F

Model TA-3 Fig. (C). This is the economy auto antenna. A high quality top cowl model that offers attractive appearance and delivers fine performance but sells for an amazingly low price. Fits top cowl of any model car. Installed quickly and easily entirely from outside of car. Has three sections that telescope to 56 inches. Constructed of durable chrome plated tubing with "Eight-Ball" mounting insulator. 36″ polyethylene insulated, vinylite covered High-Q lead-in with coaxial type connector. Complete easy-to-follow instructions.
Ward Model TA-3—
Net Each...................... $2.39

Ward Model TB-3—Same as above but with 54″ lead-in. Net Each.......**$2.49**

SIDE COWL AND FENDER MOUNTS

Model SC-8 Fig. (D). "Long Ranger", a favorite in low signal strength areas where its extra length provides finer reception. 4 section, 100″. Sturdy construction assures trouble-free service. Ward 36″ coaxial lead cable included.
Ward Model SC-8. Net Each.... $4.59

Model SC-6 Fig. (D). "Air Queen", same quality construction and design as "Long Ranger" above except 3 section tube assembly, 66″.
Ward Model SC-6. Net Each.... $3.27

ROOF TOP AND MOTORCYCLE MOUNTS

Model SPP-18 Fig. (E). 21″ rod for intercommunication on 140-165 mc band. Simplest installation, no cutting of car upholstery. Ward 12 ft. coaxial lead cable included. Perfect for taxicabs, police, fire departments, radio telephone and radio dispatched services.
Ward Model SPP-18. Net Each.. $3.96

Model SPP-6 Fig. (F). Motorcycle ring type antenna. Flexible, durable 42″ whip rod mounted in a heavy shock mounting base, with safety ring tip.
Ward Model SPP-6. Net Each... $5.55

Model SPP-26 Roof-Top Base (Not Illus.). Permits sturdy, flexible roof-top mounting of whips. Minimizes effects of body shielding and distorted ground plane. Heavily plated to prevent corrosion. Includes spring and base insulator, pads, and backup plate.
Ward Model SPP-26 Base—Net.. $7.50

ACCESSORIES

LEAD EXTENSION CABLE

Provides additional lead length required for fender installation. Made of finest polyethylene insulation, wire shield braid, oil and abrasion-proof vinylite. All leads with connectors.

Ward Model C- 8 Lead 12″—Net.. 54c

Ward Model C- 9 Lead 18″—Net...**72c**
Ward Model C-12 Lead 24″—Net...**87c**

Ward Model C-41 — 9-foot lead extension with capacitor. Net Each $2.37

Ward Model C-42—15 foot extension with capacitor. Net Each.... $3.30

Ward Model 15-1—36″ lead. Net.**$1.02**
Ward Model 15-99—54″ lead. Net **1.26**

Model C-52 Streamline Conversion Kit—Converts Ward "8" Ball into a streamline mount. Incl. Dress Nut, Chrome Washer, Insulator Sleeve, Streamline Chrome Cap, Contour Rubber Pad and Rubber Washer. Instructions.
Ward Model C-52—Net Each......**90c**

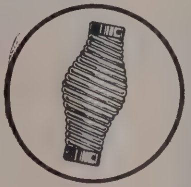
POLICE-TYPE ANTENNAS AND MOUNTS

Universal Swivel Mounts

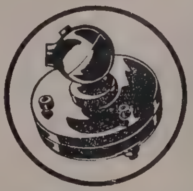
Antennas built for the hardest mobile use. Separate components may be combined to meet any requirements. These rear mounting transmitting antennas are designed for the 25-45 mc. services. Base mounts in such a way as to allow the whip rod to be held vertically, regardless of contour of the vehicle body.

Model SPP-3A (Fig. G). Shock Mounting Spring. This sturdy spring is used to lessen damage to the whip rod. A flexible lead through the center of the spring maintains constant electrical impedance through the spring assembly. ⅜-24 stud on one end, ⅜-24 tapped hole on the opposite end—approximately 6″ in height. Made of oil-tempered wire. Individually packed. Approx. wt. 2 lbs. 12 oz.
Ward Model SPP-3A. $4.74
Net Each..................

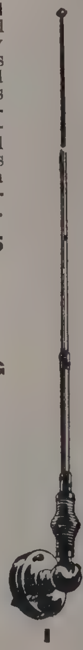
Model SPP-3 Swivel Base (Fig. H). Swivel base for mounting at any desired point. Half balls of cast aluminum tapped ⅜-24 to accept whip rods and shock springs. Insulator of black bakelite—rubber gaskets—steel back-up plate. All screws are Allen head type with wrenches supplied. Individually packed. Approx. wt. 3 lbs. 4 oz.
Ward Model SPP-3. Net Each. $7.95



G

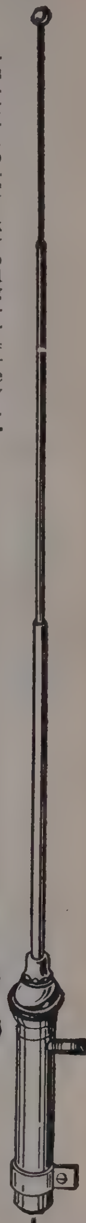


H



I

Model SPP-12 (Fig. I). Adjustable 2-section rod. Shown mounted with swivel base and shock mounting spring. Telescopes from 85″ to 103″ and is equipped with a locking device that permits removal of the whip rod and replacement at the exact previous length. Heavy wall, hard-drawn brass tubing—threaded ⅜-24 to fit either SPP-3 Base or SPP-3A Spring. Rod same as SPP-3B below. Individually packed. Approx. wt. 2 lbs. 10 oz.
Ward Model SPP-12. Net Ea... $13.50



J

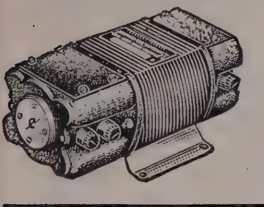
Model SPP-3B (not illustrated). **Single Rod.** Special alloy whip rod of maximum resilience and durability. 84″ Single Rod for proper use in the range of 30 to 45 mcs. Non-corroding, stainless steel tapered for stress distribution. Base adapter threaded ⅜-24 to permit mounting on SPP-3 Base or SPP-3A Spring. Individually packed. Approx. wt. 2 lbs.
Ward Model SPP-3B. Net Each.. $6.90

Model SPPB-71 (Fig. J). Emergency Antenna. Non-telescopic construction exactly duplicates standard automotive model in appearance. Gives perfect disguise for detective or patrol service. Whip removable for quick servicing. For high or low band service. 55″ permanent whip eliminates contact troubles. Lead take-off accepts any standard AN connector.* Used as short ¼ wave vertical for 25-44 mc service. "J" antenna with car body as short leg of "J" for 152-162 mc service. Approx. wt. 2 lbs.
Ward Model SPPB-71. Net Ea. $13.50

*Lead not included.

Carter CONVERTERS · GENEMOTORS · MAGMOTORS

NEW DUOVOLT 6/12 VOLT GENEMOTORS



Incorporates two separate six-volt windings, each having its own field. Six or twelve volt operation is obtained simply by connecting the four input leads in parallel or in series. May be transferred from one car to another regardless of battery voltage, without slightest impairment of transmitting or receiving quality, without replacing generator and without wiring modification of hookup. 3½" high, 4¾" wide, 8" long. Weight, 11½ lbs.

Carter No.	Input		Input		Output		Duty	Net Each
	Volts	Amps.	Volts	Amps.	Volts	Amps.		
420VBN	5.5	26	11	13	400	.200	Con.	$64.50
450ABNS	6	29	12	14.5	400	.250	Int.	65.25
4037ABNS	6	41	12	20.5	400	.375	Int.	68.55
4228VBNS	5.8	33	11.6	16.5	420	.280	Int.	65.80
520ABNS	6	28	12	14	500	.200	Int.	65.25
520VBNS	5.5	31	11	15.5	500	.200	Int.	66.00
617VBNS	5.5	30	11	15	600	.170	Int.	66.00
624VBNS	5.7	46	11.4	23	600	.240	Int.	68.39

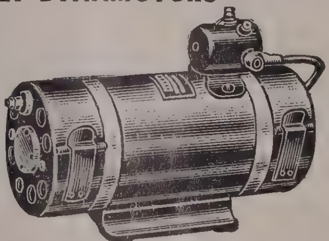
NEW DUOVOLT SUPER GENEMOTORS

Engineered for adequate capacity to operate 50- to 60-watt mobile transmitters in the HIGH frequency 144-174 mc. band. 8⅜" long, 4⅜" high, 5⅝" wide including base, 4⅝" wide less base. Weight, 16¾ lbs.

TAB430	6	32	12	16	400	.300	Con.	$81.75
TVBS627	5.5	46	11	23	600	.270	Int.	82.50
TVBS630	5.5	52	11	26	600	.300	Int.	83.25
TABS6228	6	46	12	23	620	.280	Int.	83.25
TVBS6237	5.8	62	11.6	31	620	.375	Int.	86.25

CHANGE-A-VOLT DYNAMOTORS

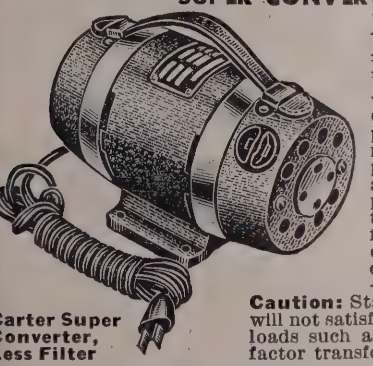
Operate 6 volt 2-way radio equipment from 12 volt systems without rewiring. Supplied complete with starting relay and switch, 12 volt fuse block and wiring to directly convert a 12 volt battery to a 6 volt radio supply. B615V delivers 15 amps continuously and 45 amps intermittent. 65% efficiency. Can also serve as battery equalizer when operating low voltage equipment.



Carter No.	Input*		Net Each	Carter No.	Input†		Net Each
	Volts	Amps.			Volts	Amps.	
B615V	12	11.5	$66.72	**E128V**	24	6.0	$66.72
E615V	24	5.7	66.72	**J128V**	28	5.3	66.72
J615V	28	5.0	66.72	**C128V**	32	4.6	66.72
C615V	32	4.3	66.72	**HS128V**	70	2.2	67.46
HS615V	70	2.1	67.46	**D128V**	115	1.3	67.46
D615V	115	1.2	67.46	....	......	....	....

*Output 6 volts, 15 amps. †Output 12 volts, 8 amps.

SUPER CONVERTERS



Carter Super Converter, Less Filter

Carter Super Converter—Changes DC to AC for Amplifiers, Radios, High Power Factor equipment. Wherever DC to AC conversion is necessary, the Carter Super Converter provides an efficient and reliable source of AC power. Standard models are designed for high power factor, non-inductive loads such as amplifiers, radio receivers (requires filtered converter), etc. Ball bearing equipped—3600 rpm.

Caution: Standard Super Converters will not satisfactorily operate inductive loads such as AC motors, low power factor transformers, etc.

STANDARD 100% PF CONVERTERS

Carter No.	DC Input		Watts, AC at 60 cps, 115 v.	Net Each
	Volts	Amps.		
D1040C	115	.7	40	$52.50
D1010C	115	1.7	100	54.00
D1015C	115	2.0	150	56.25
A1040C	6	15	40	53.25
A1010C	6	27	100	54.75
A1015C	6	40	150	57.00

Heavy Duty Super Converter. Continuous duty, less filter, 10¼" long, 4½" wide, 5" high. Weight 19 lbs.

D1020C	115	2.6	200	$65.62
D1025C	115	3.2	250	69.37
B1020C	12	30	200	67.50
B1025C	12	34	250	71.25

MANUAL FREQ'Y CONTROLLED SUPER CONVERTER

Designed for Ampex, Brush, Magnecord and Webster Tape Recorders for broadcast service. Output frequency can be maintained at 60 cy. with constant 70% PF load, ±10% input variation.

Carter No.	DC V. Input	Amps. Input	Output, W.	Net Each
AR1010CW4	6	35	130 w. load	$108.00
BR1010CW4	12	17	130 w. load	108.00
DR1010CW	115	2	130 w. load	99.00
BR1021CP	12	29	210 w. load	191.25

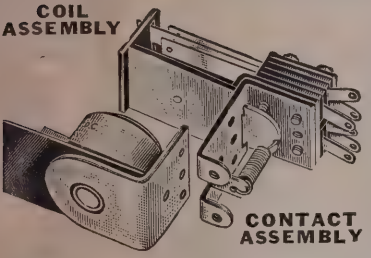
WIRE AND TAPE RECORDER CONVERTERS

Make and Model Number of Equipment	Carter Model, Voltage Input Net Each		
	6-Volt	12-Volt	115-Volt
60 WATT MODELS			
	Size: 8¼" L. x 4½" W. x 5" H. Weight 13 lbs.		
Air King 750; Ampro 730-731 **Crescent H22A1, 903, 907** **Knight Wire** **Web-Cor 80, 180, 228, 18** **Wilcox-Gay 8U12; Wireway** **Edison Voicewriter, VP** (for 115 Volt DC only)	**A1060CW** 29 amps. drain $54⁰⁰	**B1060CW** 14 amps. drain $54⁰⁰	**D1060CW** 1 amp. drain $53²⁵
Dictorel **Pierce 560**	**A1060C** $54.00	**B1060C** $54.00	**D1060C** $53.25
80 WATT MODELS			
	Size: 8¼" H. x 4½" W x 5" H. Weight 13 lbs.		
Bell Record-O-Fone RT50, RT65B, RT75 **Crestwood CP201, 402, FME37B** **Gray Audiograph** **Eicor 1000-15-115-400-230** **Gen. Ind. Foundation Unit*** **Knight Tape, Pierce 55B** **Masco D37, LD37, DC37** **Pentron T3, 9T3, 9T3C, CT1, TR4, HT225** **Revere T100, T500, LR-1, T900, T1100, T1400** **Web-Cor 210-1** **Wilcox-Gay 1C10, 2C10, 3F10, 3A10, 4A10, 4B10, 4C10**	**A1080CW** 31 amps. drain $54³⁷	**B1080CW** 15 amps. drain $54³⁷	**D1080CW** 1.5 amps. drain $53⁶²
Dictaphone Time-Master	**A1080C** $54.37	**B1080C** $54.37	**D1080C** $53.62
80 WATT MODELS WITH FREQUENCY CONTROL			
	Size: 8¼"x4½"x7½"H.; Wt. 15 lbs.		
Ampex 600	**AR1080C** $99.37	**BR1080C** $99.37	**DR1080C** $98.63
80 WATT MODELS WITH FILTER			
	Size: 8¼"x4½"x7½"H., Wt. 15 lbs.		
Revere TR200, TR600, TR800, TR20 **Masco LD37R** **Ultratone PT-9**	**A1080CWX** $73¹²	**B1080CWX** $73¹²	**D1080CWX** $72³⁸
100 WATT MODELS WITH FREQUENCY CONTROL			
	Size: 8¼"x4½"x7½"H.; Wt. 15 lbs.		
Ampex 620A with 600 **Berlant BR-1**	**AR1010C** 27 amps. drain $99.75	**BR1010C** 15 amps. drain $99.75	**DR1010C** 1.7 amps. drain $99.00
130 WATT MODELS			
Brush BK411, BK414, BK442, BK4430, BK455 **RCA Model SRT-301** **Web-Cor 2010, 2030**	**A1090CW4** 35 amps. drain $61.50	**B1090CW4** 17 amps. drain $61.50	**D1010CW** 2 amps. drain $54.00
VM 700	**AX1090CW4** $63.75	**BX1090CW4** $63.75	**DX1090CW** $56.25
	Sizes: 6 and 12-volt models 10¼" x 4½" x 5" H., Wt. 18 lbs. 115-volt models 8¼" x 4½" x 5" H., Wt. 13 lbs.		
Ampro. Celeb. 755, 756 **Berlant Con. 1401-1501** **Brush BK401, BK403** **Crescent H19A1** **Magnecord PT6, PT6JA, PT63, Voyager M30, M33, M34** **Pierce 260, 265, 270** **Revere T700, T700D, T10, T11** **Webster Ekotape 101, 109, 110, 114, 205**	**A1010CW4** 35 amps. drain $63⁰⁰	**B1010CW4** 17 amps. drain $63⁰⁰	**D1010CW** 2 amps. drain $54⁰⁰
160-210 WATT MODELS			
	Size: 11⅝" x 6¾" x 7¼" H. Weight 38 lbs.		
Berlant 20/20	**ARS1016CP** $191.25	**BR1016CP** $191.25	**DR1016CP** $191.25
Ampex 400A-401A **Magnecord Binaural** **TDC etereotone 130**	Not Recommended	**BR1021CP** 29 amps. drain $191.25	**DR1021CP** 2.5 amps. drain $191.25
300-500 MODELS WITH FREQUENCY CONTROL			
	Size 12⅝" x 6¾" x 7¼" H. Weight 54 lbs.		
Ampex 350 **Magnecord M80, M81, M90**	Not Recommended	**BRS1040CP** $216³⁷	**DR1030C5P** $213⁷⁵

*Including average recorder-amplifier.

Relays, Crystals, Filters, Meters

GUARDIAN INTERCHANGEABLE AND SPECIAL RELAYS



Two basic parts—a coil assembly and a contact switch assembly—comprise this simple, yet versatile, relay. The coil assembly consists of the coil and field piece. The contact assembly consists of switch blades, armature, return spring and mounting bracket. Contact assemblies available in either SPDT or DPDT. Interchangeable with Series 200.

Model	Contact Switch Assemblies	Net Each
200-1	Single pole double throw 8 amps.	**$1.35**
200-2	Double pole double throw 8 amps.	**1.83**
200-3	Contact switch parts	**1.35**
200-4	Double pole double throw 12.5 amps.	**2.13**
200-5	4 pole double throw 8 amps.	**3.35**
200-M1	Single pole double throw	**1.32**
200-M2	Double pole double throw	**1.62**
200-M3	Contact switch parts, Midget	**1.35**
200-M5	4 pole double throw 8 amps.	**2.82**

Model	A C Coils		Net Each
200-6A	6 volts A.C.	60 cycles	**$1.62**
200-12A	12 volts A.C.	60 cycles	**1.62**
200-24A	24 volts A.C.	60 cycles	**1.62**
200-115A	115 volts A.C.	60 cycles	**2.04**
200-230A	230 volts A.C.	60 cycles	**2.82**

Model	DC Coils	Net Each
200-6D	6 volts D.C.	**$1.62**
200-12D	12 volts D.C.	**1.62**
200-24D	24 volts D.C.	**1.62**
200-32D	32 volts D.C.	**1.62**
200-110D	110 volts D.C.	**2.04**
200-5000D	Plate Circuit Coil	**2.13**

CONTACT PARTS KIT 200-3

Assortment of contact parts to make other switch combinations. May be used with SPDT or DPDT contact assemblies to make 3PST, 4PST, 4PDT combinations, etc. Either contact assembly takes any combination up to four pole double throw. Includes complete assembly and wiring information for all possible combinations. Complete with all necessary hardware. Shipping Weight, 4 oz. Net Each........................ **$1.35**

AMPERITE DELAY RELAYS

A
AMPERITE DELAY RELAY

Glass Enclosed—Hermetically Sealed—AC-DC or Pulsating Current. Circuits: SPST only—normally open or normally closed. Heater Wattage: 2 Watt approx. Heaters can be operated continuously. Contact Rating: 115 v., 3 amp. AC (or 220 v. 0.5 amp. AC); maximum voltage between contacts and heater—1500 v. Ambient Temperatures: Relays are compensated for temperatures of −55° to +70° C. Life: With 115 v., 1 amp. AC, noninductive, at least 500,000 operations. Base Wiring: Heater—Prongs 2-3; Contacts—5-7. Net Each....... **$2.40**

NORMALLY OPEN CONTACTS*

Del. Sec.	Tol. Sec.	HEATER VOLTAGES 2.5 V.	5.0 V.	6.3 V.	12 V.	26 V. (22-30)	115 V.
2	± 1	2N02	5N02	6N02	12N02	26N02	115N02
3	± 1	2N03	5N03	**6N03**	12N03	**26N03**	**115N03**
5	± 2	2N05	5N05	**6N05**	12N05	**26N05**	**115N05**
10	± 3	2N010	5N010	**6N010**	12N010	**26N010**	**115N010**
15	± 3	2N015	5N015	**6N015**	12N015	**26N015**	**115N015**
20	± 4	2N020	5N020	**6N020**	12N020	**26N020**	**115N020**
30	± 8	**2N030**	**5N030**	**6N030**	**12N030**	**26N030**	**115N030**
45	±10	2N045	5N045	**6N045**	12N045	**26N045**	**115N045**
60	±12	**2N060**	5N060	**6N060**	12N060	**26N060**	**115N060**
75	±15	2N075	5N075	**6N075**	12N075	**26N075**	**115N075**
90	±15	2N090	5N090	**6N090**	12N090	**26N090**	**115N090**
120	±30	2N0120	5N0120	**6N0120**	12N0120	**26N0120**	**115N0120**

NORMALLY CLOSED CONTACTS*

Del. Sec.	Tol. Sec.	2.5 V.	5.0 V.	6.3 V.	12 V.	26 V. (22-30)	115 V.
2	± 1	2C2	5C2	6C2	12C2	26C2	115C2
3	± 1	2C3	5C3	**6C3**	12C3	**26C3**	**115C3**
5	± 2	2C5	5C5	**6C5**	12C5	**26C5**	**115C5**
10	± 3	2C10	5C10	**6C10**	12C10	**26C10**	**115C10**
15	± 3	2C15	5C15	**6C15**	12C15	**26C15**	**115C15**
20	± 4	2C20	5C20	**6C20**	12C20	**26C20**	**115C20**
30	± 8	2C30	5C30	**6C30**	12C30	**26C30**	**115C30**
45	±10	2C45	5C45	**6C45**	12C45	**26C45**	**115C45**
60	±12	2C60	5C60	**6C60**	12C60	**26C60**	**115C60**
75	±15	2C75	5C75	**6C75**	12C75	**26C75**	**115C75**
90	±15	2C90	5C90	**6C90**	12C90	**26C90**	**115C90**
120	±30	2C120	5C120	**6C120**	12C120	**26C120**	**115C120**

*Boldface type indicates most popular types.

BLILEY CRYSTALS

100 KC CRYSTAL

Precision crystal designed for use in secondary standards. Silver plated; mounted between wire supports which are soldered to plated surfaces. Adjustable to exactly 100 kc at 25°C when used in recommended oscillator circuit.
Bliley No. KV3.—Net Each........................ **$8.50**

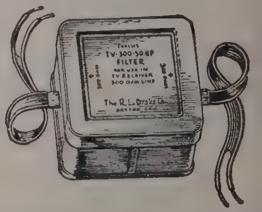
AMATEUR CRYSTALS

Type AX-2. Dependable amateur crystals for application as listed below. Code Nos. E17, E18 and E19 are supplied to integral spot frequencies (no fractions) as ordered; calibration is ±500 cycles in factory test oscillator. Code No. E20 tolerance is ±10 kc. These crystals also are used with the Type CCO-2L Oscillator above. All are 15/16″ long x 1 1/16″ wide x 7/16″ thick; pin size .093″; pin spacing, .486″.

Bliley Code No.	Type	Application	Net Each
E17	AX2	1800-1825 KC	**$3.75**
E17	AX2	1875-1900 KC	
E17	AX2	1900-1925 KC	
E17	AX2	1975-2000 KC	
E18	AX2	3500-4000 KC	**$2.95**
E19	AX2	7000-7425 KC	
E19	AX2	8000-9000 KC	
E20	AX2	14-14.5 mc	**$3.95**

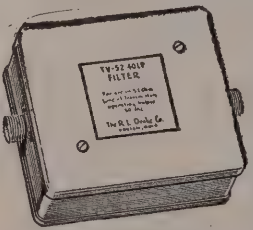
R. L. DRAKE TVI FILTERS

HI-PASS TYPE FOR RECEIVERS



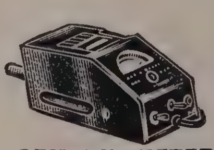
Easily installed in the antenna lead-in at the input to the booster or TV receiver. Designs to attenuate all signals from zero to 50 megacycles entering the TV receiver through the antenna and lead-in, thereby protecting the video amplifer and I.F. channel. Although no low frequency interference may exist at the time of installing the TV receiver, the inclusion of a high pass filter in the installation will serve as insurance against future interference.
Drake No. TV-300-50HP—For use with 300-ohm Twin Lead.—Net Each.... .... **$2.97**

LOW PASS FILTERS

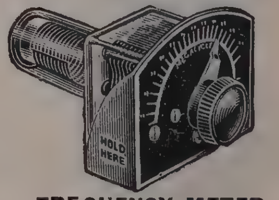


Model TV-52-40LP—For 52-ohm Coax transmission lines and in Coax links between antenna coupler and transmitter; 30 mc or lower, attenuates all antenna and feed systems harmonic radiation above 40 mc. For transmitters up to 1 kw and operating in the low frequency bands, 10 to 160 meters. Will not reduce signal strength at fundamental frequency, and eliminates use of stubs and traps. It is excellent insurance against interference to high frequency radio services, such as police, taxicabs, aircraft.
Drake TV-52-40LP—For 52 ohm coax. Ham Net Each. **$12.95**
Drake TV-300-LP—For 300 ohm Twin Lead. Ham Net **$12.95**

MILLEN TRANSMITTER EQUIPMENT



GRID DIP METER



FREQUENCY METER

FREQUENCY METERS

Compact midget units. Absorption type for checking harmonics, parasitics, oscillator-doubler, tank tuning, etc. **Size:** 2 3/8″ x 1 7/8″ x 4″. Shipping Weight 10 oz.

Type	Range	Net Each	Type	Range	Net Each
90605	3.0 to 10 mc	**$7.50**	**90607**	23 to 60 mc	**$7.50**
90606	9.0 to 23 mc	**7.50**	**90608**	50 to 140 mc	**7.50**

Millen Set No. 90600—Set of 4 above in case. Net.....**$30.00**

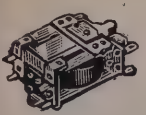
GRID DIP METERS

A calibrated, stable RF oscillator unit with a meter to read grid current. The frequency determining coil is plugged into the unit so that it may be used as a probe. May be used as a Grid Dip Oscillator, an Oscillating Detector, a Signal Generator, an indicating Absorption Wavemeter. **Frequency Range:** 1.7 to 300 mc. **Size:** (Grid Dip Meter only, less probe): 7″ x 3 3/16″ x 3 3/8″. Complete with built-in transformer type AC power supply; internal terminal board to provide connections for battery operation; 2″ calibrated dial; 7 coils; coil rack; tube. Shipping Weight 3½ lbs.
Millen Model No. 90651 Frequency Meter—Net Each. **$61.50**

Additional Inductors

Millen No. 46702—925 to 2,000 kc. Net Each..........**$6.72**
Millen No. 46703—500 to 1,050 kc. Net Each.......... **6.72**
Millen No. 46704—325 to 600 kc. Net Each............ **6.72**
Millen No. 46705—220 to 350 kc. Net Each............ **6.72**

Advance Relays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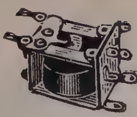
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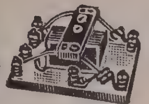
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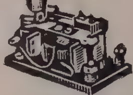
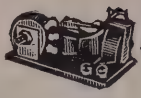

LE/LH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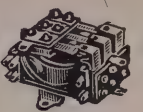
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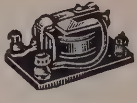
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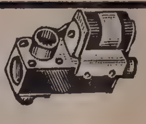
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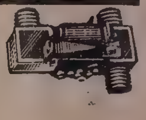
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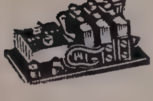
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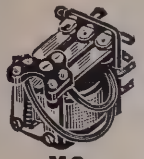
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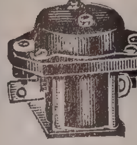
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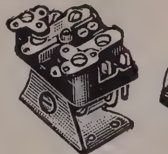
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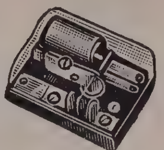
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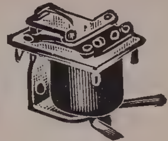
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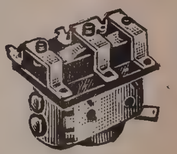
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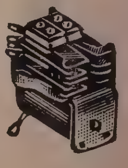
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ANTENNA TYPES

Type AH switches from transmit to receive in fixed and mobile operations where load does not exceed ½ KW. Silver contacts. Contacts and blades reinforced with phosphor-bronze. Steatite insulation for low RF loss. 1⅝" x 2¾" x 1$\frac{7}{16}$" high. Mounting, 2 tapped holes on 2" centers. **Type AM** for low powered RF and 300 ohm circuit switching. $\frac{15}{16}$" x 1$\frac{15}{16}$ x 1$\frac{9}{16}$" high. Mounting, single 6-32 stud, nut. **Type AT** for heavy-duty RF transmitter antenna changeover at fixed stations with 1 KW RF rating. 2$\frac{13}{16}$" x 3$\frac{9}{16}$" x 1$\frac{11}{16}$" high. Mounting; 4 6-32 holes.

Advance No.	Coil (Ohms)	Coil V.	Contacts, Amps	Net
AH/2C 6VA	1.6	6VAC	DPDT 10 amps	**$6.58**
AH/2C/115VA	450.0	115VAC	DPDT 10 amps	**6.58**
AH/2C/6VD	16.0	6VDC	DPDT 10 amps	**6.58**
AH/2C1C/6VA	1.6	6VAC	**10 amps	**8.10**
AH/2C1C/115VA	450.0	115VAC	**10 amps	**8.10**
AM/2C/6VA	4.0	6VAC	DPDT 2 amps	**3.27**
AM/2C/115VA	1600.0	115VAC	DPDT 2 amps	**3.27**
AM/2C/6VD	25.0	6VDC	DPDT 2 amps	**3.27**
AT/2C/115VA	450.0	115VAC	DPDT 10 amps	**7.90**

**DPDT (int) SPST (aux).

COAXIAL TYPES

For switching 52 ohm coaxial lines at frequencies to 300 meg cps. Silver contacts supported directly from cable connectors for low loss at VHF. Auxiliary contacts up to DPDT available. **Type CB:** 3$\frac{1}{16}$" x 3⅞" x 1⅞" high. Mounting, 2 6-32 tapped holes on 1$\frac{7}{16}$" centers. **Type CE:** 2$\frac{1}{16}$" x 2$\frac{15}{16}$" x 1$\frac{13}{16}$" high. Mounting, 2 6-32 tapped holes on ¾" centers.

Advance No.	Coil (Ohms)	Coil V.	Contacts, Amps	Net
CB/1C/6VD	18	6VDC	SPDT 5 amps	**$9.98**
CB/1C/24VD	280	24-28VDC	SPDT 5 amps	**9.98**
CB/1C/115VA	280	115VAC	SPDT 5 amps	**9.98**
CB/1C2C/6VD	18	6VDC	**5 amps	**12.38**
CB/1C2C/24VD	280	24-28VDC	**5 amps	**12.38**
CB/1C2C/115VA	280	115VAC	**5 amps	**12.38**
CE/1C2C/6VD	20	6VDC	**2 amps	**10.53**

**SPDT (int) DPDT (aux).

MIDGET AND MINIATURE TYPES

Type MG has beryllium copper armature hinges, phenolic insulation. 1¼" x 1$\frac{13}{16}$" x 1⅝" high. Mounting, single 6-32 stud, nut. **Type MK** has beryllium copper armature hinges, silicone glass insulation. **Max. Operating time—5 milliseconds.** $\frac{41}{64}$" x $\frac{53}{64}$" x $\frac{51}{64}$" high. Mounting, single 2-56 machine screw.

Advance No.	Coil Ohms	Coil V.	Contacts, Amps	Net
MG/1C/6VA	4	6VAC	SPDT 2 amps	**$2.59**
MG/1C/115VA	1600	115VAC	SPDT 2 amps	**2.59**
MG/1C/6VD	25	6VDC	SPDT 2 amps	**2.59**
MG/1C/24VD	250	24-28VDC	SPDT 2 amps	**2.59**
MG/2C/6VA	4	6VAC	DPDT 2 amps	**2.79**
MG/2C/24VA	63	24VAC	DPDT 2 amps	**2.79**
MG/2C/115VA	1600	115VAC	DPDT 2 amps	**2.79**
MG/2C/6VD	25	6VDC	DPDT 2 amps	**2.79**
MG/2C/12VD	100	12VDC	DPDT 2 amps	**2.79**
MG/2C/24VD	250	24-28VDC	DPDT 2 amps	**2.79**
MG/3C/6VD	25	6VDC	3PDT 2 amps	**3.19**
MG/3C/24VD	250	24-28VDC	3PDT 2 amps	**3.19**
MK/1C/6VD	30	6VDC	SPDT .5 amps	*
MK/2C/24VD	800	24-28VDC	DPDT .5 amps	*
MK/2C/5000D	5000	24-28VDC	DPDT .5 amps	*

*Write for price.

TIME DELAY TYPES

Bi-metal thermal units that can be adjusted for 5 to 60 second delays. Cooling period, 8 to 10 times delay period. **Type DB:** delay before break. **Type DM:** delay before make. 2⅝" x 3¾" x 1⅝" high. Mounting, 2 .152" dia. holes on 3$\frac{5}{16}$" centers.

Advance No	Coil Ohms	Coil V.	Contacts, Amps	Net
DB/2C/115VA	450	115VAC	DPDT 15 amps	**$9.39**
DM/2C/115VA	450	115VAC	DPDT 15 amps	**9.39**

TELEPHONE TYPE

¾" x 1$\frac{1}{32}$" x 1⅝" high. Mounting, 4 tapped 3-48 holes, ⅜" centers.

Advance No.	Coil Ohms	Coil V.	Contact, Amps.	Net
TQ/2C/24VD	600	24-28VDC	DPDT 3 amps.	**$3.23**
TQ/4C/24VD	300	24-28VDC	4PDT 3 amps.	**4.85**

SOLENOID CONTACTOR TYPES

1$\frac{15}{16}$" x 2¾" x 2½" high. Mounting, two .218" dia. holes, 1⅞" cntrs.

Advance No.	Coil Ohms	Coil V.	Contact, Amps.*	Net
ES/1A/12VD	28	12VDC	SPST-NO 50 amps.	**$7.26**
ES/1A/24VD	112	24-28VDC	SPST-NO 50 amps.	**7.26**

*Contacts rated at 115VAC or 26.5VDC resistive loads.

POWER CONTROL TYPES

For air conditioning, lighting, small motor circuits, etc. Operates in any position. **PC Series:** 1⅝" x 2⅝" x 1$\frac{9}{16}$" high (1 and 2 pole), and 3$\frac{1}{16}$" x 2¾" x 1$\frac{9}{16}$" high (3 and 4 pole); mtg., two holes on 2" centers. **PG Series:** For industrial power control circuits. Withstands heavy vibration. 1½" x 1⅝" x 1⅞" high. Mounting, four tapped holes on ½" x 1$\frac{5}{16}$" centers.

Advance No.	Coil Ohms	Coil V.	Contacts, Amps.	Net
PC/1C/6VA	1.6	6VAC	SPDT 15 amps	**$3.07**
PC/1C/115VA	450	115VAC	SPDT 15 amps	**3.07**
PC/1C/6VD	16	6VDC	SPDT 15 amps	**3.07**
PC/1C/24VD	250	24-28VDC	SPDT 15 amps	**3.07**
PC/2C/6VA	1.6	6VAC	DPDT 15 amps	**4.39**
PC/2C/24VA	25	24VAC	DPDT 15 amps	**4.39**
PC/2C/115VA	450	115VAC	DPDT 15 amps	**4.39**
PC/2C/6VD	16	6VDC	DPDT 15 amps	**4.39**
PC/2C/12VD	63	12VDC	DPDT 15 amps	**4.39**
PC/2C/24VD	250	24-28VDC	DPDT 15 amps	**4.39**
PC/3C/6VA	1.6	6VAC	3PDT 15 amps	**5.27**
PC/3C/115VA	450	115VAC	3PDT 15 amps	**5.27**
PC/3C/6VD	16	6VDC	3PDT 15 amps	**5.27**
PC/3C/24VD	250	24-28VDC	3PDT 15 amps	**5.27**
PC/4C/115VA	450	115VAC	4PDT 15 amps	**7.90**
PC/4C/24VD	250	24-28VDC	4PDT 15 amps	**7.90**
PG/2C/6VA	1.4	6VAC	DPDT 15 amps	**5.08**
PG/2C/115VA	400	115VAC	DPDT 15 amps	**5.08**
PG/2C/24VD	160	24-28VDC	DPDT 15 amps	**5.08**

POWER TRANSFER TYPES

Relays with large silver-cadmium oxide contacts for high current make and break. Binding post terminals. **PH Series** (heavy duty) is used as a keying relay in CW transmission. 3¼" x 2¼" x 1⅝" high; mounting 2 holes on 1½" centers. **PV Series** (very heavy duty) is for motor starting, lighting and circuits requiring double-make contacts. 2¼" x 3¼" x 1⅝" high; mtg. 2 holes on 1⅞" ctrs.

Advance No.	Coil, Ohms	Coil V.	Contacts, Amps	Net
PH/1A/6VD	16	6VDC	SPST-NO 20 amps	**$5.27**
PH/1A/115VA	450	115VAC	SPST-NO 20 amps	**5.27**
PH/1C/115VA	450	115VAC	SPDT 20 amps	**5.67**
PH/1C/6VD	16	6VDC	SPDT 20 amps	**5.67**
PV/1A/6VD	16	6VDC	SPST-NO 30 amps	**6.14**
PV/1A/115VA	450	115VAC	SPST-NO 30 amps	**6.14**
PV/1C/6VD	16	6VDC	SPDT 30 amps	**7.34**
PV/1C/115VA	450	115VAC	SPDT 30 amps	**7.34**

LATCHING TYPES

Type LE (electrical reset) and **Type LH** (manual reset) relays for elimination of continuous current consumption by the duty coil. 2½" x 3⅝" x 2⅜" high. Mounting, 2 .152" dia. holes on 2" centers. Binding post terminals for coil connections, solder lug terminals for contact connections.

Advance No.	Coil Ohms	Coil V.	Contacts, Amps	Net
LE/2C/6VA	1.0	6VAC	DPDT 15 amps	**$7.66**
LE/2C/115VA	250.0	115VAC	DPDT 15 amps	**7.66**
LE/2C/24VD	160.0	24-28VDC	DPDT 15 amps	**7.66**
LH/2C/115VA	250.0	115VAC	DPDT 15 amps	**5.70**

OVERLOAD TYPES

Protects equipment from current surges or constant overloads. Electrical reset. Especially applicable to transmitters. **Type OE** is adjustable for 250 to 500 milliamp overload. **Type OF** is adjustable for 500 to 1000 milliamp overload. 3½" x 4¼" x 2⅜" high. **OH and OJ Types,** manual reset, are also available.

Advance No.	Coil Volts	Contact, Amps	Net
OE/2B	24-28VDC	DPST-NC 15 amps	**$10.54**
OF/2B	24-28VDC	DPST-NC 15 amps	**10.54**

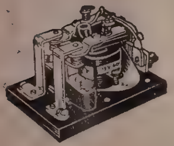
SENSITIVE TYPES

Type SO (miniature) contacts are above ground, operate on AC. Hermetically sealed covers available. 1⅛" x 1¼" x 1$\frac{7}{32}$" high. Mounting, 2 tapped 4-40 holes on ½" centers. **Type SV** (very sensitive) have factory-set sensitivity of 5 milliamps. In transparent plastic cover. 2" x 2$\frac{9}{16}$" x 1½" high. Mounting, 2-.152 holes.

Advance No.	Coil Ohms	Coil Volts	Contacts, Amps*	Net
SO/1C/4000D	4000	6.4VDC	SPDT 1.5 amps	**$3.65**
SO/1C/6500D	6500	8.1VDC	SPDT 1.5 amps	**3.80**
SO/1C/10000D	10000	10.0VDC	SPDT 1.5 amps	**3.95**
SV/1C/1000D	1000	2.25MA	SPDT 2 amps	**6.58**
SV/1C/1600D	1600	1.8MA	SPDT 2 amps	**6.58**
SV/1C/2200D	2200	1.5MA	SPDT 2 amps	**6.58**
SV/1C/3500D	3500	1.2MA	SPDT 2 amps	**6.79**
SV/1C/5500D	5500	.95MA	SPDT 2 amps	**6.98**
SV/1C/8700D	8700	.75MA	SPDT 2 amps	**7.19**
SV/1C/14000D	14000	.60MA	SPDT 2 amps	**7.58**
SV/1C/20000D	20000	.50MA	SPDT 2 amps	**8.74**
SV/1C/30000D	30000	.40MA	SPDT 2 amps	**10.68**
SV/1C/40000D	40000	.35MA	SPDT 2 amps	**12.98**

*Contacts rated at 115VAC or 26.5VDC resistive loads.

Relays by Potter & Brumfield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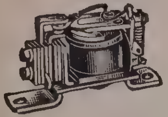
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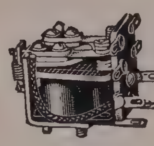
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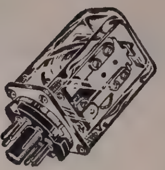
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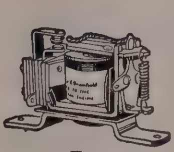
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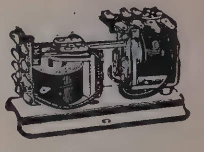
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ALL-PURPOSE RELAYS

KA Series. Contacts raped 4 amps. Megs. U/L requirements. 1 1/16" x 1 27/32" x 1 3/8" high. **KL Series.** Multiple contact type. All are 1 15/16" wide; KL5: 1 7/32" x 1 15/16" high; KL11: 1 3/8" x 1 7/8" high; KL14: 1 7/16" x 1 15/16" high; KL17: 1 11/16" x 1 15/16" high. **GA Series.** Multiple leaf type with contacts rated 8 amps. 1" x 1 11/16" x 1 25/32" high. **SP Series.** Heavy duty shock-proof type for industrial control circuits, transmitter keying, etc. Fine silver contacts rated 8 amps double break, 5 amps single. 2 7/16" x 1 5/8" x 1 21/32" high. **KRP Series.** Enclosed, voltage actuated. Polystyrene case with standard octal plug. Contacts rated 5 amps. 1 13/32" x 1 13/32" x 2" high (above socket).

Contacts	60-Cycle AC Relays				DC Relays			
	6-12-24-115 v.			230 v.	6-12-24 v.			110 v.
	P&B Type	Fig.	Net Ea.	Net Ea.	P&B Type	Fig.	Net Ea.	Net Ea.
SPDT	KA5A	C	$2.85	....	KA5D	C	$2.60	$3.20
DPDT	KA11A	C	3.35	....	KA11D	C	3.05	3.65
3PDT	KA14A	C	3.70	....	KA14D	C	3.45	4.05
SPDT	KL5A	....	3.20	....	KL5D	....	3.10	3.70
DPDT	KL11A	....	4.15	....	KL11D	....	4.00	4.60
3PDT	KL14A	KL	4.75	....	KL14D	....	4.55	5.15
4PDT	KL17A	....	5.90	....	KL17D	....	5.60	6.20
DPDT	GA11A	....	3.15	$3.55	GA11D	....	3.15	3.65
3PDT	GA14A	....	3.75	4.15	GA14D	....	3.75	4.25
4PDT	GA17A	....	4.15	4.75	GA17D	....	4.35	4.85
DPDT	SP11A	....	5.95	....	SP11A	....	5.70	....
SPDT	KRP5A	D	5.20	....	KRP5D	D	5.15	5.75
DPDT	KRP11A	D	5.75	....	KRP11D	D	5.70	6.30

POWER RELAYS

PR Series. Heavy duty, fast acting. Fine silver contacts rated 20 amps double break, 15 amps single. All are 2 1/2" wide; PR1, 3 & 5: 2 1/2" x 2 7/32"; PR7: 2 1/2" x 2 7/16" high; PR11: 3 3/8" x 2 7/16" high. Meets U/L specifications. **MR Series.** Medium duty fast action with silver contacts rated 8 amps. Single Pole types: 2 31/32" x 1 5/16" x 1 5/8" high; Double Pole types: 2 19/32" x 2 3/16" x 1 15/16" high. **PS Series.** Power contactors for use where small size is important. Contacts rated at 15 amps. 1 1/2" x 1 5/8" x 1 13/16". *PS11A 6-24-115 v. AC.

SPST-NO	PR1A	A	$3.70	$4.10	PR1D	A	$3.70	$4.30
SPST-NO-DB	PR3A	A	3.80	4.20	PR3D	A	3.80	4.40
SPST	PR5A	A	4.00	4.40	PR5D	A	4.00	4.60
DPST	PR7	A	4.50	4.90	PR7D	A	4.50	5.10
DPDT	PR11A	A	6.00	6.40	PR11D	A	6.00	6.60
SPST-NO	MR1A	B	2.85	3.25	MR1D	B	2.70	3.20
SPST-NO-DB	MR3A	B	3.20	3.60	MR3D	B	2.95	3.45
SPDT	MR5A	B	2.90	3.30	MR5D	B	2.65	3.15
DPST-NO	MR7A	B	3.80	4.20	MR7D	B	3.50	4.00
DPDT	MR11A	B	3.90	4.30	MR11D	B	3.75	4.25
3PDT	MR14A	B	4.95	5.35	MR14D	B	4.60	5.10
DPDT	PS11A*	....	4.90	5.50	PS11D	....	4.90	5.70

PLATE CIRCUIT RELAYS

Fine silver contacts rated 5 amps. Tail spring adjustment or pull-in. **LM Series:** 2 5/16" x 1 1/4" x 2 7/16" high. **LB Series:** Photo cell, etc., plate circuits. 2 5/8" x 1" x 1 3/8". **KCP Series:** Enclosed in polystyrene case with standard octal plug. 1 13/32" sq. x 2" high above socket.

Contact	P&B No.	Fig.	Coil		Net Each
			Ohms	Ma	
SPDT	LM5	J	2500	6.3	$3.20
SPDT	LM5	J	5000	4.5	3.35
SPDT	LM5	J	10000	3.2	3.80
DPDT	LM11	J	2500	9.0	5.05
DPDT	LM11	J	5000	6.3	5.25
DPDT	LM11	J	10000	4.5	5.75
SPDT	LB5	..	2500	9.0	2.30
SPDT	LB5	..	5000	6.3	2.50
SPDT	LB5	..	10000	4.5	2.65
SPDT	KCP5	D	2500	7.2	5.60
SPDT	KCP5	D	5000	5.0	5.70
SPDT	KCP5	D	10000	3.6	6.15
DPDT	KCP11	D	2500	10.0	6.00
DPDT	KCP11	D	5000	7.2	6.10
DPDT	KCP11	D	10000	5.0	6.50

TELEPHONE RELAYS

Standard BS Series. Palladium contacts rated 4 amps. 4 1/8" x 1 1/32" x 2 3/4" high. **Miniature MH Series** (Fig. M). Silver contacts rated 5 amps. Open: 1 5/8" x 25/32" x 1 9/16"; hermetically sealed 1 11/16" x 1 1/32" x 2 7/32" high. Withstand better than 10G vibration shock. Suffix "M" indicates sealed.

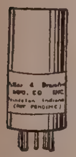
CURRENT ACTUATED

4PDT	BA17L	..	10000	6.0	$8.95
DPDT	MH1L	..	10000	4.5	5.05
DPDT	MH1LM	..	10000	4.5	9.70

VOLTAGE ACTUATED

6-12-24-115 v. 60 Cycles		DC Relays		
P&B No.	Net	P&B No.	Volts	Net
....	.....	BS17D†	6	$7.60
....	.....	BS17D†	12	7.95
MH17A*	$6.15	MH17D*	6-24	5.30
MH17AM*	12.10	MH17DM*	6-24	11.60

Contacts: *Form C; †4PDT.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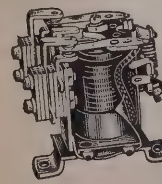
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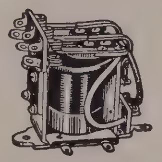
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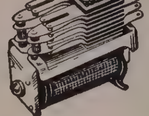
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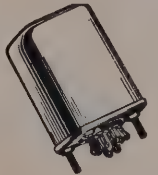
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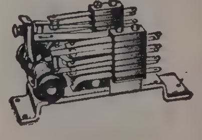
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SPECIAL PURPOSE RELAYS

AP Series Ratchet, Impulse Types for equipment requiring accurate repetitive switching. Silver contacts rated 5 amps. 2 25/32" x 2 9/32" x 2 5/16" high. **LK Series. Latching Relays,** electrical latch and release for automatic control. Silver contacts rated 5 amps. Coils withstand 500 v. RMS breakdown. 2 29/32" x 1 3/4" x 1 25/32" high. **ABC Series.** Appliance relays enclosed in dust cover. Meets U/L requirements. Contacts rated 12 amps. 1 7/16" x 3" x 2 3/32" high.

Contacts	Fig.	60 Cycle AC Relays			DC Relays		
		6-12-24-115 v.		230 v.	6-12-24 v. DC		110 v. DC
		P&B	Net	Net	P&B	Net	Net
DPDT	O	AP11A	$7.90	$ 8.30	AP11D	$7.90	$ 8.50
4PDT	O	AP17A	9.50	9.90	AP17D	9.50	10.10
4PDT	F	LK17A	9.50	10.30	LK17D	8.40	9.60
DPDT	N	ABC11A	6.40	6.80	ABC11A	6.40	6.90

MB Series Miniature DC Contactor. Designed for very high current applications. Silver contacts and contact shorting bar. 1 5/8" x 13/16" x 1 3/8". **FR Series Photoflash Relays.** Contacts designed to carry high surge current without sticking, burning or pitting. Precise repetitive accuracy. Intermittent duty. 2 9/32" x 1 7/16" x 5/32" high. **MC Series Ceramic Insulated Relays.** Inter-contact capacitance, 1.5 μμf. Ceramic contact spacers minimize losses at high frequencies. Palladium contacts rated 1 amp. DC types withstand 10G vibration to 300 cps and a 25G shock. 35/32" x 1 5/16" x 1 1/2" high.

Contacts	Fig.	P&B	Coil Volts	Coil Ohms	Net
1 Form X (SPST-NO-DM)	....	MB3D	6 v. DC	13.3	$4.50
	....	MB3D	12 v. DC	62.3	4.50
	....	MB3D	24 v. DC	245.0	4.50
	....	MB3D	110 v. DC	3670.0	4.95
SPDT	....	MC5A	6, 115 v. AC	....	3.90
SPDT	....	MC5D	6, 24 v. AC	....	3.45
SPDT	E	FR5A	6 v. 50-60 Cy. AC	....	3.60
SPDT	E	FR5D	2 v. DC	....	3.60

MOTOR STARTING RELAYS

For capacitor start, induction-run motors. Operates on back EMF of running winding. Adjustable armature gap. 115 v. relay pulls in at 140 v., releases at 40 v.; 230 v. relay pulls in at 255 v., releases at 80 v. 2 3/4" x 2 1/16" x 2" high.

Type MS2A—SPST-NC (1 Form B) silver contacts.

For 115 v. 60 cy. motors up to 1 hp. Net Each..........	$2.75
For 230 v. 60 cy. motors up to 1 hp. Net Each..........	2.90

Type MS4A—SPST-NC-NB (1 Form B) silver cadmium oxide contacts.

For 115 v. 60 cycle motors to 3 hp. Net Each..........	$3.60
For 230 v. 60 cycle motors to 3 hp. Net Each..........	3.70

MINIATURE RELAYS (FIG. H)

PW Series. Silver SPDT contacts rates 2 amps. Withstands 10G vibration to 500 cps; 10G minimum shock. Hermetically sealed in deep drawn brass can. Fits standard 7-pin miniature tube socket. 3/4" diameter x 1 11/16" high above socket.

P&B No. PW5DS			P&B No. PW5LS		
Nominal Voltage	Pull In Voltage	Net Each	Coils Res. Ohms	Pull In Ma.	Net Each
6.0	4.5	$ 9.75	5000	2.8	$10.05
24.0	18.0	10.25	10000	2.0	10.50

SM Series. Silver-rhodium SPDT contacts rated 0.25 amp. Withstands 10G vibration up to 55 cps. Hermetically sealed in deep drawn steel can. Fits standard 7-pin miniature tube socket. Diameter 3/4" x 1 11/16" above socket.

P&B No. SM5DS			P&B No. SM5LS		
6.0	4.5	$ 5.80	5000	3.8	$ 6.10
24.0	18.0	5.80	10000	2.7	6.55

COIL BOBBIN KIT

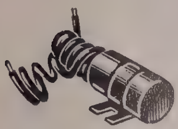
No. 75A047 Coil Bobbin Kit—24 assorted molded phenolic (85° C rise—1000 v. RMS), three each of eight different sizes, core diam. 7/32" to 7/16". Net per Kit..........$1.50

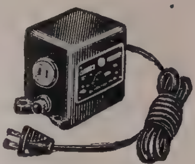
Quietone Interference Filters by

CORNELL-DUBILIER CAPACITORS

IF4 & IF5

F11 & IF12


IF24


IF21

Quietone filters are used to correct noise introduced into radio circuits by electrical appliances.

FOR USE AT RADIO RECEIVER

Type **IF-4**—For use on small radio receivers when noise level is not too severe. Connects between line cord and wall receptacle. 110-volts, A.C.-D.C. 5 amps. Ivory, Walnut or Green. Weight 5 oz. Net Each.................................. **66c**

Type **IF-18**—For use where noise level is severe. Bakelite case. 110-volts, A.C.-D.C. 5 amps. Ivory or Walnut. Weight 4 lbs. Net Each.................................. **$5.01**

FOR USE AT APPLIANCES

Type **IF-5**—For small electrical appliances. Plug type filter. For low intensity interference. 110-volts A.C.-D.C. 5 amps. Ivory, Walnut or Green plastic. Weight 5 oz. Net Each... **66c**

Type **IF-6**—For electrical appliances which radiate noise of moderate intensity. Plug type. 110-volts, A.C.-D.C. 5 amps. Ivory, Walnut or Green finish. Weight 6 oz. Net Each... **$1.05**

Type **IF-19**—Capacitive-inductive filter for severe interference. 110-volts, A.C.-D.C. 5 amps. Brown or Ivory bakelite. Weight 1½ lb. Net Each.............................. **$4.20**

Type **IF-20**—For use on small appliances where interference is very low. Plugs between appliance and wall socket. 110-volts, A.C.-D.C. 5 amps. Ivory or Walnut bakelite case. Weight 4 oz. Net Each.................................. **45c**

Type **IF-21**—All-wave capacitive-inductive filter for use where return lead to frame of appliance cannot be made. 110-volt A.C.-D.C. 1.6 amps. Ivory or Walnut bakelite. Shipping weight 1¾ lb. Net Each.............................. **$2.40**

Type **IF-22**—For electric razors. Line cord and plug with two styles of adaptors. Type IF-22A for Schick, Knapp-Monarch, and similar types. Type IF-22B for Packard, Zephyr, Remington-Rand and Ronson Shavers. 110-volts, A.C. 5 amps. Ivory or Black bakelite. Weight 6 oz. Net Each........................ **$1.65**

INDUSTRIAL QUIETONES

Industrial Quietone Filter Units are for suppressing interference generated by industrial type electrically operated equipment such as stokers, elevators, refrigeration equipment, generators and heavy duty motors. No current limitations for capacitive (CP) Quietones.

CAPACITIVE (CP) QUIETONES

C. D. No.	Volts A.C.-D.C.	Connections	Housing	Net Each
IF-25	110-220	Flex-Leads	Metal	**$2.97**
IF-26	110-220	Flex-Leads	Metal	**3.96**
IF-11	110	BX	Cutout Box	**7.92**
IF-12	220	BX	Cutout Box	**10.89**
IF-14**	110-220	BX	Cutout Box	**14.85**

**All Quietones listed above with exception of IF-14 are for single phase circuits. IF-14 is for 2 or 3 phase circuits.

CAPACITIVE-INDUCTIVE (CI) QUIETONES

C. D. No.	Volts A.C.-D.C.	Max. Amps.	Connections	Housing	Net Each
IF-7A*	110-220	5	BX	Cutout Box	**$8.25**
IF-15	110-220	10	BX	Cutout Box	**16.50**
IF-16	110-220	20	BX	Cutout Box	**23.10**
IF-27	110	5	Flex-Leads	Steel Box	**4.62**
IF-28	110	10	Flex-Leads	Steel Box	**8.25**
IF-29	110	20	Flex-Leads	Steel Box	**14.52**

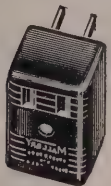
*For use on oil burners.

FLUORESCENT LIGHT QUIETONES

C. D. No.	Volts A.C.-D.C.	Connections	Housing	Net Each
IF-6	110	Plug-in	Metal	**$1.17**
IF-24	110	Flex-Leads	Metal	**.75**
IF-54*	110-220	Flex-Leads	Metal	**1.50**

*Capacitive-inductive filter. Rated at 2 amps.

MALLORY APPLIANCE AND HEAVY DUTY FILTERS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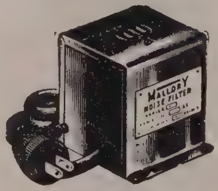
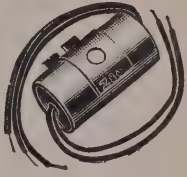

TYPE LC


TYPE Z

TYPE X APPLIANCE FILTERS

For use with plug-in type appliances where straight capacity type filters are sufficient. Single and dual capacitor filters in round metal housings for insertion between appliance cord and wall outlet. Male prong and female slot terminals.

Mallory Type X1 is for relatively slight interference. Size: 1⅜″ x 1¾″. Rated 110 volts, 5 amperes. Net Each....... **96c**

Mallory Type X3—Has greater efficiency than Type XI. 1⅜″ x 2¼″. 110-220 volts, 5 amperes. Net Each......... **$1.08**

Mallory Type X5 is triple capacity filter. Size 1⅜″ x 2⅛″. 110-220 V. 5 amps., equipped with binding post for connection to appliance or motor frame. Net Each.................................. **$1.62**

Mallory Type X6—For medium interference. Furnished in rectangular brown plastic case. Size 1¼″ x 2¹⁄₁₆″ x 1″. Rated 110 volts AC-DC, 5 amperes. Net Each.................... **96c**

PORTABLE HEAVY-DUTY FILTERS

For portable plug-in applications where severe interference is involved. Combination inductance-capacity filter housed in rectangular metal case. Ample line cord with male plug for insertion in wall outlet, female receptacle for appliance. Binding post for return lead to appliance or motor frame.

Mallory Type LC5—Rated 115-220 V. AC-DC, 5 amperes. Net Each.................................. **$6.75**

Mallory Type LC10—Rated 115-220 V. AC-DC, 10 amperes. Net Each.................................. **$9.00**

TYPE Z APPLIANCE FILTERS

For use with plug-in type appliances where inductance-capacity continuation filters are needed. Single and dual inductance-capacity filters housed in round metal containers for insertion between appliance cord and wall outlet.

Mallory Type Z2—For medium interference. 1⅜″ x 2¾″. 110-120 V. 3 amperes. Ground return lead. Net Each..... **$1.32**

Mallory Type Z4—Is dual inductance-capacity filter for severe interference. 1⅜″ x 3″ 110-220 V. 3 amps. Net Each.................................. **$1.50**

Mallory Type Z6—Same as above except with ground return lead. 1⅛″ x 3⅜″. 110-220 V. 3 amps. Net Each... **$2.16**

Mallory Type Z8—Same as Z6 except return lead is to motor frame or appliance. Net Each.................. **$2.16**

TYPE LB HEAVY DUTY FILTERS

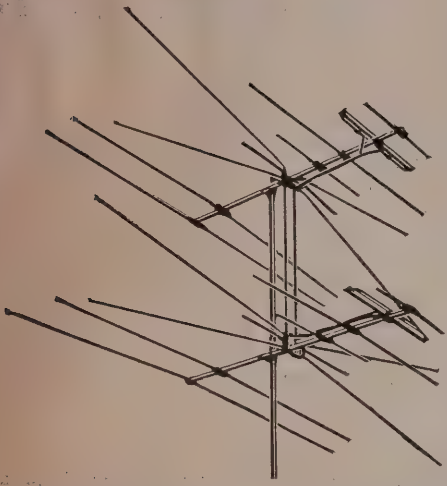
For permanent installation wherever heavy-duty filters are required. Heavy duty choke-capacity combination sealed in rectangular case and housed in heavy gauge metal cut-out box. Heavy, flexible leads for splicing into line wiring.

Mallory No.	Rating	Size	Net Each
LB-10	220 V. 10 amps.	6″ x 6″ x 4″	**$10.50**
LB-20	220 V. 20 amps.	10″ x 10″ x 6″	**28.50**
LB-40	220 V. 40 amps.	12″ x 10″ x 6″	**35.25**

Antennas, Lightning Arresters

TELEVISION ANTENNAS

SUPER-JeT



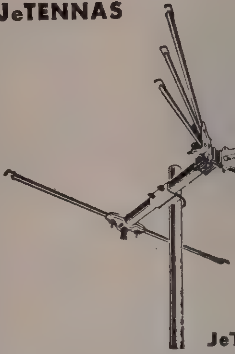
The JeT213 was developed after considerable investigation into more conventional approaches to all channel reception. This antenna has been designed to overcome the usual VHF pattern of good gain and directivity on the high VHF channels and poorer gain and directivity on channels 2 to 6. The JeT213 curve for channels 2 to 6 is reasonably flat, indicating the effect of the dual reflector action. A director is employed to sustain a fairly constant level on the high end of the lower VHF channels. The secret of the large bandwidth without resonant "bumps" lies in the use of an extended conical type driven element without the familiar forward tilt. Full gain is realized from this type of construction, and only negligible shunt effect is experienced on the channel 7 to 13 position of the antenna. The high channel section consists of 2 driven elements and 2 directors spaced and phased to present a reasonably flat response on channels 7 to 13. The receiving element of the low end of the high channels is located in the center of the flat plane conical assembly. One of the outstanding advantages of JeT213 is its excellent directivity and the absence of side lobes. Entirely preassembled from tip to tip. Jetenna assembly opens in a flash. 1″ square heavy-wall aluminum boom. Counter-balanced for rotator use. (May be used with rotator to receive UHF). Dowel reinforced elements.

JFD No. JeT 213—Single bay. Net Each $11.91

JFD No. JeT213S—2-bay stack. Net Each $24.85

JFD No. JeT213S-5—2-bay, ½ wave stacked. Net Each $26.01

JeTENNAS



JeT 160

No other conical assembles so fast . . . performs so well. All-aluminum, the JeTenna* is truly the most remarkable conical yet to appear on the TV market. Single bay gain up to 8.8 db, two-bay gain up to 12.5 db and double stacking produces an outstanding 15.5 db gain. All JeTenna* figures are verified by the Hazeltine Corporation, leading electronic research laboratory.

Precision-molded Butyrate dipole heads, securing the fan-front elements, slide into position in mere seconds. Conical elements are strengthened with a heat-treated solid aluminum dower and has a seamless 1″ square crossarm too. For record-breaking all-channel performance.

SINGLE BAY

JeT160—Up to 8.8 db gain. Aluminum doweled seamless aluminum elements. Net Each $6.93

JeT660—Aluminum doweled butt-seam aluminum elements. Net Each $5.43

Model JeT660SR—One-piece 61ST6 solid aluminum rod elements. Net Each $6.00

2-BAY

JeT161—Up to 12.5 db gain. Aluminum doweled seamless aluminum elements. Net Each $14.85

JeT661—Aluminum doweled butt-seam aluminum.... elements, Net Each $16.58

Model JeT661SR—One-piece 61ST6 solid aluminum rod elements. Net Each $12.75

4-BAY

JeT164—Up to 15.5 db gain. Aluminum doweled seamless aluminum elements. Net Each $32.16

JeT664—Aluminum doweled butt-seam aluminum elements. Net Each $25.35

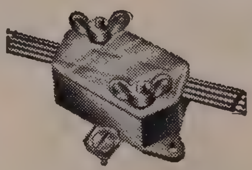
Model JeT664SR—One-piece 61ST6 solid aluminum rod elements. Net Each $27.66

*Registered U. S. Patent Office.

LIGHTNING ARRESTERS

AT102

AT103



AT104, AT04S

AT105

AT105S

JFD No. AT102 "JUMBO"—Protects your home and set against lightning and static charges. Constructed of waterproof porcelain. Complete with 4-ft aluminum ground wire and stainless steel strap for universal mounting. For ribbon-type twin lead. Net. . $1.35

JFD No. AT103 "JUMBO"—For oval, jumbo and tubular lead. A safeguard against lightning striking TV antennas. Stops static interference. Delivered with 4-ft. aluminum ground wire and stainless steel strap for universal mounting. Net Each $1.35

JFD No. AT104—Four-wire, eight-contact for rotator lead-ins. High dielectric plastic casing. 8 sharp contact points. With ground lug for window or wall mounting. For oval and tubular leads. Net Each...... 90c

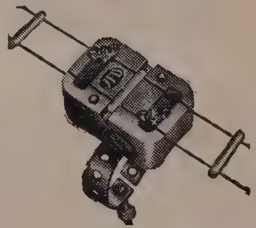
JFD No. AT104S—Same, with stainless steel strap. Net Each $1.05

JFD No. AT105—Powerful, yet compact. Protects installation against lightning and static charges. Exclusive JFD "lip" prevents tearing of lead-in wire. Of high dielectric plastic. With ground lug for wall or window mounting. Complete with hardware. Net Each 75c

JFD No. AT105S "Little Giant"—For ribbon and oval jumbo lead-in. Same exclusive design as AT105. High dielectric plastic. Permanently sealed against temperature changes. Complete with U/L Approved stainless steel strap for pipe mounting. Net. . 90c

JFD No. AT107 "JUMBO"—Open line lightning arrester. Made of waterproof porcelain with nickel plated hardware. Over-sized strain-relief assembly protects the wire from chafing and ultimate breakage. Comes with 4-ft. aluminum ground wire and U/L Approved stainless steel strap. Net Each $2.10

JFD No. AT110 "3-IN 1"—Extra protection to UHF and VHF open wire, tubular and ribbon twin lead. JFD exclusive strain relief lips prevent leads from ripping apart. With ground lug and hardware for wall or window-sill mounting. Net Each...... 90c

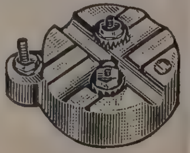


AT107

AT110, AT110S

NEW AT120

JFD No. AT110S—Same as above, with stainless steel hanger strap for universal mounting and 4-ft. aluminum ground wire. Net Each $1.05



NEW AT130

JFD No. AT130 "Jumbo Stangard"—A low-loss, low cost universal lightning arrester for all UHF and VHF lines. It installs easily and quickly anywhere in the house. A new U/L approved material is used that has less capacity and less inductance, resulting in less line loading on UHF. Solid brass hardware. With mounting strap and built-in wood screw. Net Each 42c

JFD No. AT120 "Lightning Sentry"—Lasts forever, offers extra protection. Banishes picture-smearing static. When lightning strikes, you replace only fuses. Any shape of VHF or UHF lead-in is secured by deep porcelain strain-relief lips. No wire stripping, simply cut lead-in and insert under lips, then tighten nuts. Contains UHF compensating coils that permit full signal transfer at UHF. Includes 4-ft. aluminum ground wire and stainless steel hanger strap for universal mounting. Beautiful nile green color. Net Each $2.85

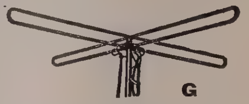
93X-55A

FM and TV Antennas, Components

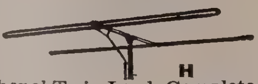
AMPHENOL FM ANTENNAS AND COMPONENTS

FM ANTENNAS

OMNIDIRECTIONAL (FIG. G)



G



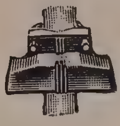
H

Engineered for localities where FM stations are located at all points of the compass from the receiver. Requires no rotation to provide excellent reception from any direction. The two elements are properly matched to circular radiation pattern and gain equal to folded dipole. Sturdy aluminum construction throughout. Easy to install. Comes complete with mast, quarter-wave phasing stub, mounting bracket, guy clamp, hardware and 75 ft. of Amphenol Twin Lead. Complete instructions for installation.
Amphenol Model 114-010—Net Each.................. $9.75

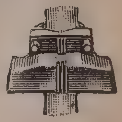
FOLDED DIPOLE AND REFLECTOR (FIG. H)

A deluxe FM Antenna engineered for use in areas at considerable distance from an FM station. Provides exceptionally clear, brilliant reception. Folded dipole design with reflector provides high gain comparable to Amphenol In-Line TV Antenna. Sturdy construction will withstand high wind and weathering. Comes complete with mast, mounting bracket, stand-offs, guy clamp, all necessary hardware and 75 ft. of Amphenol Twin Lead. Complete instructions for installation included.
Amphenol Model 114-008—Net Each.................. $9.75

MATCHING NETWORKS



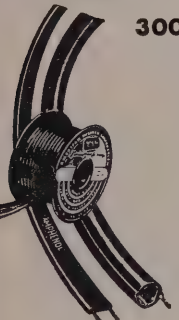
ISONET



TRISONET

With the **Isonet** separate VHF and UHF antennas can be coupled to a common transmission line. The **Trisonet** will accommodate separate UHF and high and low band VHF antennas to one line. With either the Isonet or the Trisonet, minimum signal loss is the outstanding feature and top reception is assured. A lumped-circuit-constants filter-network in both Isonet and Trisonet achieves maximum isolation and correct matching. The housing of either unit is designed to provide protection from atmospheric effects and sufficient separation from ground. The blue plastic case, molded of low-moisture-absorption and high strength butyrate compound, shields the network both above and at the sides. As a result, any moisture collecting on the case is out of the concentrated field of the network and will have a minimum effect on the circuit. They may be easily mounted either on the mast, close to the antennas, or flush against the back of the receiver when the set has separate UHF and VHF terminals. $2.25
Amphenol Model 114-061 Isonet—Net Each...........
Amphenol Model 114-074 Trisonet—Net Each........**$2.70**

300-OHM TUBULAR TWIN LEAD



Only with Amphenol 14-271 Tubular Twin Lead—where the electrical field is contained within a protected area—can you satisfactorily eliminate the impedance changes which affect all flat lead-in transmission lines after exposure to the elements.

14-271 TUBULAR TWIN LEAD

Length	Package	Net Each
100 feet	Carton	$ 3.84
500 feet	Spool	16.74
500 feet	Carton	15.39
1000 feet	Spool	31.05

14-080 75-OHM FLAT TWIN LEAD

Use as a low impedance receiving line.

Length	Package	Net Each
500 ft.	Spool	$10.19
1000 ft.	Spool	19.44

300-OHM FLAT TWIN LEAD

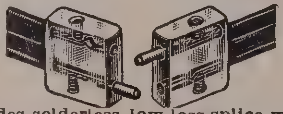
Virgin brown pigmented polyethylene dielectric assures minimum signal loss and a more constant impedance over the exceptionally long life of the Twin Lead. Remains flexible at −70° and resists corrosion from salty sea air. Flat Twin Lead is designed for use in VHF and FM applications. For UHF, order Tubular Twin Lead. 60 mil web thickness.

14-056 FLAT TWIN LEAD

Length	Package	Net Each
50 feet	Carton	$ 1.44
75 feet	Carton	1.98
100 feet	Carton	2.49
500 feet	Spool	9.86
1000 feet	Spool	19.71

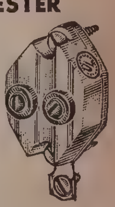
*Formerly No. 184-801.
**Formerly No. 184-802.

TWIN LEAD CONNECTOR



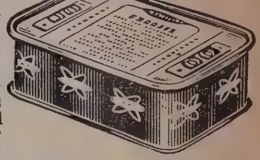
Provides solderless, low-loss splice without impedance change. Design prevents reversal of lead. Use in pairs.
Amph. Model 80-850. Net....... **18c**

LIGHTNING ARRESTER



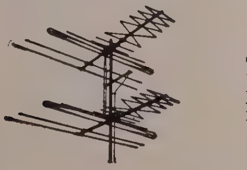
Universal Lightning Arrester can be used with flat, tubular or open wire twin lead. New design provides positive protection for any antenna installation. Approved by Underwriters' Laboratories, Inc.
Amphenol Model 114-328—Lightning Arrester only. Net Each..... **90c**
Amphenol Model 114-329—Lightning Arrester with pipe mounting strap. Net Each........ **96c**

HIGH PASS FILTER



Filter eliminates most TV interference by passing only signals at frequencies above 50 mc. No spurious signals from industrial machinery or diathermy equipment are passed to interfere with television picture clarity. Also can be used effectively for FM.
Amphenol Model 114-330—Net.. $3.27

JFD "STAR-HELIX" RAINBOW—VHF-UHF



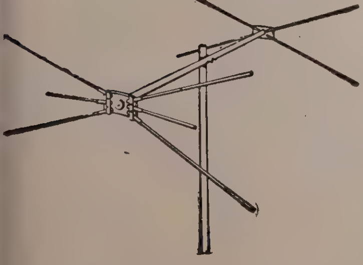
The JFD "Star-Helix" combines the sharp directivity of a Yagi with the super sensitivity of its unique Microwave helical design. No other antenna compares to the Star-Helix for picture brilliance and all-channel deep fringe reception. Exclusive JFD preassembled design with exclusive Hi-tension brackets, ALCOA all-aluminum construction.

Model SX711—Single. Net Each................ $15.30

Model SX711S—Stacked. Net Each..................**$31.50**

WALSCO VHF AND UHF ANTENNAS

WALSCO "BIG 10"

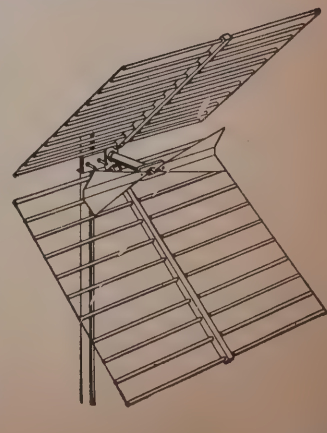


Model 4040

10-element Model 4040
Excellent gain with all channel VHF reception. All aluminum alloy construction, light, yet strong. New type insulator made of high impact styrene. All elements reinforced with both ends closed. Unique locking design with flat aluminum strap ensures complete metal to metal contact.
Walsco Model 4040F—Single bay. Net.......... $4.05
Walsco Model 4042F—2-Bay. Net Each....... $8.94

Walsco Model 4046F U-Install Kit—Each kit contains 1 complete Model 4040 antenna, 1 mast, 1 mast base, 1 guy wire ring, 40′ of guy wire, 50′ of 300 ohm lead-in, 3 screw eyes, 2 mast stand-off insulators and 3 wood screw stand-off insulators. Net Each............................ $7.95
U-Install kits also available with chimney mount (instead of guy wire and rings). Suffix **"CM"** to No. and add to Net....... **90c**

WALSCO UHF "CORNER REFLECTOR"



Designed for all-channel UHF reception. Provides high gain, sharp directivity, easy installation, excellent over-all performance. Receiving and reflector elements made of tough, corrosion resistant, chrome-aluminum alloy. Impedance matches 300 ohm lead. Satisfactory reception can be expected within a range of 25 to 50 miles from the station. All steel hardware plated to AN specifications for long, corrosion-free service.

Walsco Model 4450—Single bay, less mast. Net Each........... $5.97

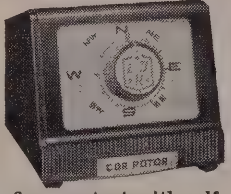
STACKING KIT

Walsco Model 4450-2—Converts 2 Model 4450 to 1 Model 4452-F. Net Each.... **$3.00**

TV Antenna Rotators

C-D RADIART ANTENNA ROTORS

AUTOMATIC ROTORS AR-1 AND AR-2



The new automatic C-D R Antenna Rotor features automatic operation plus a mechanical brake that is released magnetically. The new modern design plastic cabinet blends with other furnishings in the room. Rotor unit is similar in appearance to that illustrated above for TR-11 and TR-12. The thrust bearing accessory TA-6 illustrated with the rotor is included with AR-2 Automatic Rotor, but not with Model AR-1. It is a heavy-duty bearing for side thrust with six roller bearings. The Rotor Unit mounts easily to any mast up to 1½" diameter, making firm contact with self-centering saw-tooth clamps. The modern streamlined design holds wind resistance to a minimum. It is completely weather sealed. It is connected to the Control Unit with a 4-wire cable. Easier to operate; just set the dial to the desired direction, and the antenna rotor turns the antenna automatically to that direction and stops. The mechanical brake assures pin-point tuning with an accuracy heretofore not believed possible. Tuning is 40% sharper.

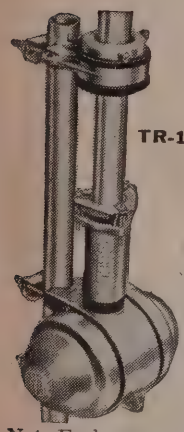
C-D R No. AR-2 Automatic Antenna Rotor—With plastic Control Cabinet and Thrust Bearing. Net Each. **$28.77**

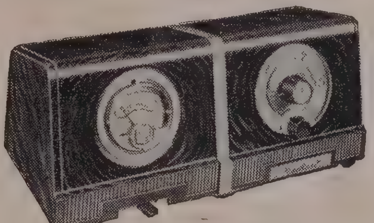
C-D R No. AR-1 Automatic Antenna Rotor—Same as AR-2 but without Thrust Bearing. Net Each.......... **$26.97**

C-D R No. AR-22 Automatic Antenna Rotor—Fully automatic version of the famous Model TR-2 Heavy Duty Rotor. Net Each.................................. **Write for Price**

C-D R No. TA6—Thrust Bearing Support. Net Each.... **$2.97**

ROTOR MODELS TR-11 AND 12



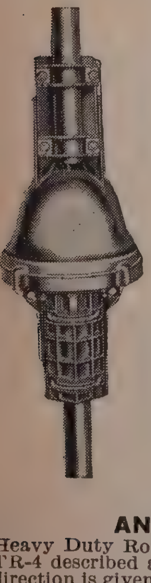


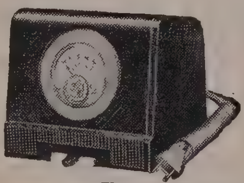
TR-11-12 TVB-2L

Model TR-11—New Rotor. Quick-mounting mast collet, speedy installation. Takes masts to 1½" OD. High torque. Instantly reversible, complete revolution in 45 seconds. Weather-proof. Very strong. Fits standard towers. Complete with handsome modern plastic cabinet and meter control dial, finger-tip lever. Uses 4-wire cable.
C-D R No. TR-11—Net Each.... **$23.97**

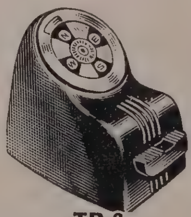
C-D R No. TR-12—Same as TR-11 but includes thrust bearing TA-6 as illustrated. Net Each.................................. **$25.77**

Booster Model TVB-2L—Low signal-to-noise. Wide band amplification. Complete neutralization for stable operation. Mahogany grained finish. Operate on 115v AC, 60 cps. Matches control unit as illustrated. 15° tilt to face for easy reading. Completely enclosed.
C-D R No. TVB-2L—Net Each...................... **$8.97**





TR-4



TR-2

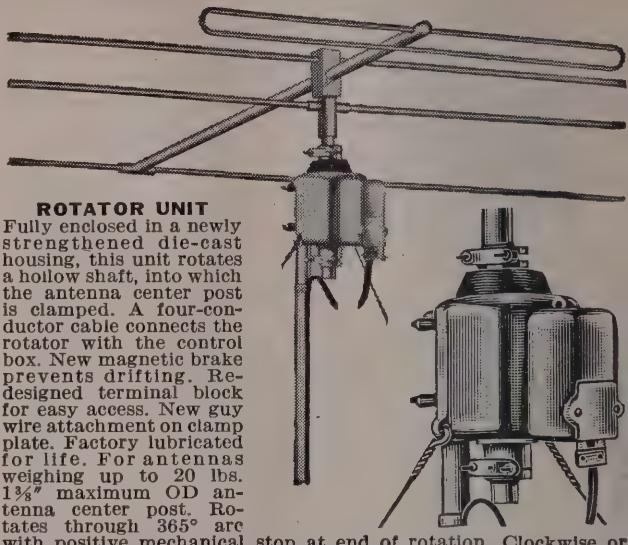
ANTENNA ROTOR MODEL TR-4

Heavy duty Antenna Rotor that will handle loads of up to 150 lbs. with ease. Rotates smoothly on 12 heavy duty ball bearings in 6½" races. Powerful, instantly reversible motor transmits more than enough power through the heavy duty, precision gear train. Positive stop at end of rotation. Sturdy streamlined die-cast housing is completely weather sealed. Lubricated at the factory for life. Mounts on mast, tower or roof. Reversible clamps for ⅞" to 2" masts. 3 guy wire lugs. Control Unit housed in attractive blond or mahogany plastic cabinet with meter type dial and finger-tip control lever. 4-wire connecting cable.
C-D R No. TR-4 Heavy Duty Rotor. Net Each...................... **$29.37**

ANTENNA ROTOR MODEL TR-2

Heavy Duty Rotor Unit is mechanically the same as the Model TR-4 described above. Electrically it differs in that indication of direction is given by means of a "Perfect Pattern" dial that gives the exact antenna position at a glance. The dial is illuminated for easy visibility in dimly lighted rooms. Model TR-2 includes the Rotor Unit, Compass-type Control Unit and 8-wire cable.
C-D R No. TR-2 Heavy Duty Antenna Rotor— Net Each...................................... **$26.97**

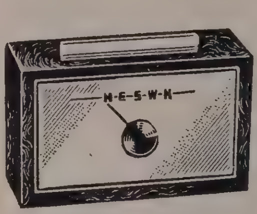
ALLIANCE "TENNA-ROTORS"

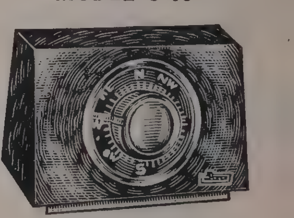


ROTATOR UNIT

Fully enclosed in a newly strengthened die-cast housing, this unit rotates a hollow shaft, into which the antenna center post is clamped. A four-conductor cable connects the rotator with the control box. New magnetic brake prevents drifting. Redesigned terminal block for easy access. New guy wire attachment on clamp plate. Factory lubricated for life. For antennas weighing up to 20 lbs. 1⅜" maximum OD antenna center post. Rotates through 365° arc with positive mechanical stop at end of rotation. Clockwise or counter-clockwise rotation; instantly reversible motor. 2 revolutions per minute, minimum coast to stop. Size, 7¾" x 5¼" x 8".

MODEL T-12 **MODEL U-98**





NEW TENNA-TELLER MODEL T-12

Combines the above rotator unit with a manually operated direction indicator. Finger-tip "touch-bar" switch with three positions (Stop, Start and Reverse). As the antenna rotates, the needle indicates its position on the compass dial. The indicator needle always stays in the position the antenna is pointed, rather than returning to the center. 110-120 volts, 60 cycles AC. Corrosion-resistant components used throughout. Shipping Weight, 12 lbs.
Alliance Model T-12—With instructions. Net Each.. **$19.97**

NEW MODEL U-98 TENNA-ROTOR

Model U-98 Tenna-Rotor includes the rotator unit shown above and is completely automatic. To operate, move pointer on control panel to the direction of desired station. The antenna then automatically moves toward the desired location, and the dial lights up. The antenna stops where the pointer is set, and the dial light goes out, indicating that the desired point has been reached. The rotator can be put up with "stop" in any desired position and the control box easily synchronized. Input volts—110 volts 60 cycle AC. Input power 65 watts. Moisture sealed. Corrosion resistant components throughout—cadmium plated parts. Interconnecting cable—4 conductor No. 20 gauge. Control size 7" x 4½" x 4". Approximate shipping weight 12 pounds.
Alliance Model U-98—Complete with instructions. Net Each.. **$23.97**

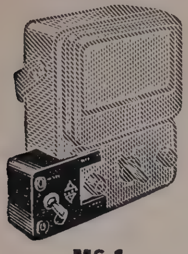
MODEL K-22 TENNA-ROTOR

Model K-22 Tenna-Rotor combines the modern plastic control case illustrated with an improved rotating unit (not illustrated). It is the third and lowest priced of the Alliance family of Tenna-Rotors. The control unit features a fingertip control bar that instantly rotates the antenna in one direction when pressed on one end and in the other direction when the other end of the bar is pressed. This enables the operator to select the exact position of his antenna for the best possible reception in his area. The automatic center disc signal light shows when the antenna has reached the limit of its rotation in either direction. The rotator unit is housed in a split die-cast zinc housing. The entire unit has been strengthened, and a magnetic brake has been added to minimize drift. The all-weather rotator block is more accessible, and it has a newly designed terminal without any sacrifice of weather seal. A new guy wire attachment has been added to the clamp plate. Rotator operates at about 2 rpm clockwise or counter-clockwise. Operates on 110-120 volts, 60 cycles AC.
Alliance Model K-22—Net Each.......................... **$14.96**

TBB THRUST BEARING BRACKET—Adapts Tenna-Rotor for heavier "Ham" beams or multi-bay TV antennas. Transfers weight from rotor unit to supporting structure and ground. Net. **$2.97**

TV Components, Towers

POMONA ELECTRONICS COMPONENTS


MS-1

CR

TVS-7

MS-1 METER REVERSING POLARITY SWITCH

A handy time-saving attachment designed to reverse polarity on a Simpson Tester Model No. 260 when making circuit tests without removing test leads to meter. It is instantly attached by plugging into test lead holes. The test leads then plug into the sockets on the switch. It is installed by inserting in the left side of the meter in the corresponding tip jacks. It is operated by a toggle switch which indicates the polarity of the circuit under test. Saves valuable time, compact, made of durable phenolic plastic fiber and is scientifically engineered to reduce shock hazard and give long years of service. May be left on meter for all measurements.
Model MS-1 Switch—Net Each.................... $5.75

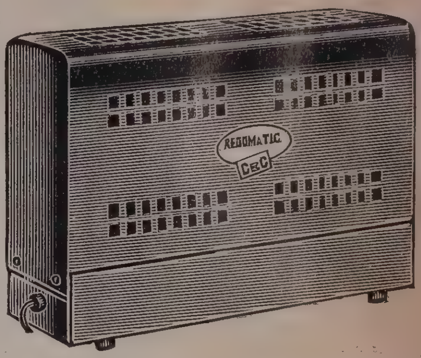
CR CATHODE RAY TEST ADAPTER

An excellent tool for testing cathode ray tubes without removing them from the cabinet. Also facilitates bench service, eliminating hazardous handling of TV tubes. Designed exclusively for use with the following testers when checking shorts, relative emission, slow heater and filament continuity. Permits dual use from your tube tester. Very compact; can be carried with tube tester. Order **Model CR-1** for use with Jackson 648 Tube Checker; **Model CR-2** for Hickock 522-3-4 and 600-5 Checkers; **CR-3** for Precision 10-00 Series Checkers; **CR-4** for Precision 9-00 Series Checkers; **CR-5** for Jackson 115 and 715 Tube Checkers; **CR-6** for Precision 6-00 Series Checkers; **CR-7** for Sylvania 139-140, 219-220 Tube Checkers; and **CR-8** for use with Simpson 330 and 555 Checkers.
CR Cathode Ray Test Adapter—State Model No. above. Net Each.. $6.45

TVS-1 DUO-DECAL TEST SOCKET ADAPTER

The Peco Duo Decal test socket adapter is ideal for making measurements of voltage, resistance and video from the base of the picture tube. It is easily inserted between the cathode ray tube base and its socket. This completes the circuit and makes all connections readily accessible to a test prod or an alligator clip. Pin numbers are easily identified by numbers by each test lug. Alligator clips may be used as well as test prods. Small, compact, sturdily constructed.
Model TVS-1 Adapter—Net Each.................... $1.95

C-B-C REGOMATIC AUTOMATIC VOLTAGE REGULATOR



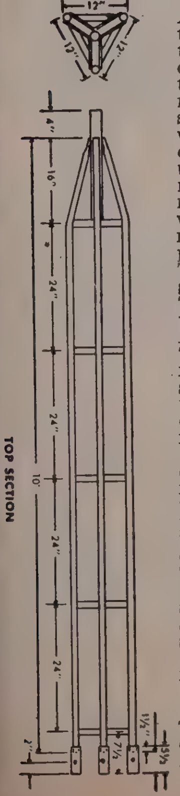
Changes fluctuating voltage to constant voltage automatically for better TV reception. Provides TV reception that is completely free from interference caused by fluctuating line voltages such as exist where the TV is on an overloaded circuit (air conditioner, refrigerator, etc.), or in areas with poor line voltage regulation. Stabilizes the voltage fed the set within ±3%, with line voltage variations of 95 to 130 volts. Just plug into an AC outlet and enjoy TV reception at its best. The output is independent of line frequency variations. Really connects and disconnects automatically whenever the set is turned on or off. Completely automatic operation for pictures that are free from shrinking, flicker or other annoying disturbances. Compact, lightweight, unobtrusive in appearance.

Model No. 200 has a maximum load of 200 watts, a minimum load of 130 watts. It is ideal for most small screen sets and some medium screen sets. **Model 300** has a maximum load of 300 watts and a minimum load of 180 watts. For all large screen, most medium screen and some small screen sets. Both models can be used to regulate voltage for other appliances.
Model 200 Regomatic VR—Net Each.............. $18.00
Model 300 Regomatic VR—Net Each................**$21.00**

TEST SOCKET ADAPTERS

These 7- and 9-pin miniature and octal test socket adapters are ideal for making measurements of voltage, resistance, audio and video from the top of the chassis while the set is in full operation. They are inserted between the tube base and its socket. This completes the circuit and makes all connections readily accessible without removing the chassis from the cabinet or without turning the set upside down on the service bench. Measurements can be made without tracing circuit wiring to test points below the chassis, thereby saving valuable time and increasing efficiency. Test lugs are used on these adapters to permit use of alligator clips as well as the test prods. The high insulated value of the yellow phenolic housing and the glass bonded mica socket together with the phosphor bronze pins make a unit that will give accurate readings of all circuits.
Model TVS-7 Adapter—7-pin miniature. Net Each...... $1.65
Model TVS-8 Adapter—8-pin octal. Net Each..........**$1.55**
Model TVS-9 Adapter—9-pin miniature. Net Each...... **1.85**

AMERICAN TV TOWERS*



Amerite TV towers are designed and engineered to produce a sturdy, trouble free, free-standing tower requiring no guy wires yet more than durable enough to withstand high wind velocities. These very strong towers require the minimum in servicing, since they are constructed of heavy 1¼" x 16 gauge electrically welded tubing in all sections. They are 100% die formed for perfect alignment. All hardware used on these towers is heat treated and cadmium plated to prevent shearing and rust corrosion. All sections are primed, then completed with a special weather resistant chrome-aluminum finish. Top section is so designed as to permit use with all rotators. The "Amerite Tower" does not require a cement base nor guy wires up to 35 feet above bracket. "Amerite Towers" are so simple to install that a 60 foot tower requires less than two man-hours to erect. All sections are 10 feet long, weigh only 37 lbs. These towers are useful in fringe and deep fringe areas where extreme heights are necessary for antennas to capture weak signals. Also useful as communication radio towers. They can be used as vertical radiators or as supports for horizontal antennas. Other uses include floodlight and loud speaker supports for outdoor sporting events, etc. These towers find favor with amateur radio operators for use as vertical radiators or horizontal antenna supports. Factory guaranteed to withstand winds up to 80 miles per hour, 35 feet beyond bracket or 40 feet self supporting in concrete base. These towers are self-supporting to as high as 50 feet. Amerite towers are triangular in design. All supports electrically welded from both sides for maximum strength. Widely spaced to serve as ladder yet spaced enough to discourage climbing by children. Completely coated for rust prevention. Various sizes of wall mounts and roof brackets are available.

The ease with which an "Amerite Tower" is erected and serviced eliminates use of ladders and does not require the labor and cost of a concrete base when used with an Amerite Ground Foundation Assembly. All sections are easily assembled and interchangeable, as these units contain snug-fitting sleeves already welded to side tubes. Completely fabricated, requiring no further finishing or assembly. All hardware is heat treated and cadmium plated, 100% die-formed for perfect alignment.

American Type CS1 Center Section—Net Each.................. $15.00

American Type T1 Standard Flat Top—**Write for Price**

American Type T3 Large Tube Top—Net Each........................**$15.00**

MOUNTING ACCESSORIES

American Type RB-100 Roof Bracket—This bracket is used where wall mount is not practical to use. Easy to erect and trouble free. Net Each.................... $3.25

American Type B-112 Wall Mount—12" wall mount of heavy duty construction and engineered to fit all 16", 18" and 24" studding installations. Net Each.......... $3.25

American Type B-118 Wall Mount—18" wall mount. Supports tower 18" out from wall. Net Each.................... $3.75

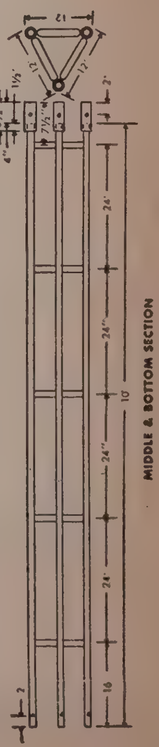
American Type B-124 Wall Mount—24" wall mount. Net Each........... $4.00

American Type B-130 Wall Mount—30" wall mount....................**Write for Price**

American Type B-136 Wall Mount—36" wall mount....................**Write for Price**

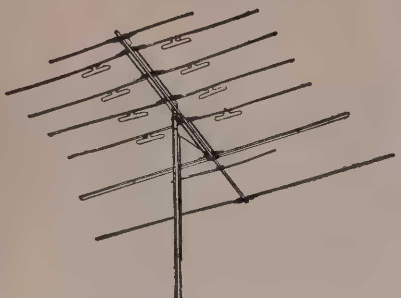
Erection Boom Type EB1—Lightweight, easy to handle erection pole to help you install sections and antennas in hard to reach places. Made of 2" x 16 gauge tube 10 feet in length. Net Each.........................**$8.00**

American Type F-1 Ground Foundation Assembly—Heavy ⅛" steel plate with three holes for driving three 1¼" x 3 ft. tubes into ground. Use of this assembly assures self-alignment of towers. Net Each.......**$2.75**



Taco UHF-VHF Antennas, Couplers

NEW "SUPER-TRAPPER" BROAD-BAND VHF



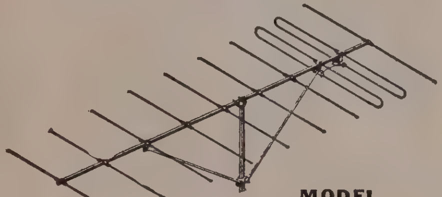
A new very high gain all channel VHF Yagi for use in the extreme fringe areas. The Super Trapper incorporates 24 working elements on the high band channels and 7 working elements on the low band channels. It utilizes the Taco Wave-Trap design so successfully introduced in the phenomenal Trapper. No greater gain or more efficient use of aluminum has been attained in a single boom antenna. The Super Trapper is designed to extend fringe reception to reach the areas of weakest signal. It has been completely field tested under all types of fringe area operating conditions. Shows outstanding "staying power" or ability to receive signals under varying propagation conditions with stability. This is due to the new Pentaphase principle used in the Super Trapper, whereby loss of signal due to wave distortion is overcome. Easily installed. Having all the elements in a single plane eliminates one of the major installation problems. Elements are completely factory assembled by means of Taco's spring loaded, quick rig design. Spring loading also contributes to the ability of the antenna to resist wind storms. Springs provide a snubbing action. $19.50

Taco Super Trapper Model 1890—Net Each.........

Taco Model 1892—Stacking Lines, close-spaced. Net.......**90c**

Taco Model 1893—Stacking Lines, wide-spaced. Net....**$2.25**

NEW SILVER STREAK YAGI



MODEL 1800

Most powerful hi-band single channel antenna ever developed. 8 directors, driven element and a reflector. Low band model contains 7 directors. The 2-diameter driven element raises inherent low-Z of the Yagi design, to match 300-ohm line. Good front-to-back ratio. Provides maximum signal gain through sharp tuning without narrowing 6 mc bandwidth. Completely factory-assembled and tuned to desired channel.

Taco Model 1800B-2—Low Band, Channel 2. Shipping Weight, 15½ lbs. Net Each............ **$21.00**

Taco Model 1800B-3—Low Band, Channel 3. Shipping Weight, 15½ lbs. Net Each............ **$21.00**

Taco Model 1800B-4—Low Band, Channel 4. Shipping Weight, 14 lbs. Net Each............ **$18.30**

Taco Model 1800B-5—Low Band, Channel 5. Shipping Weight, 14 lbs. Net Each............ **$16.50**

Taco Model 1800B-6—Low Band, Channel 6. Shipping Weight, 14 lbs. Net Each............ **$15.75**

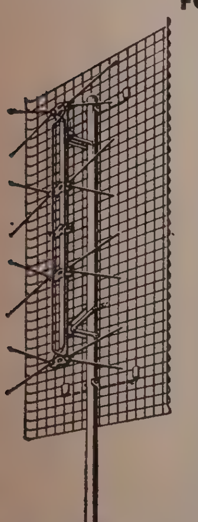
Taco Model 1802—Stacking lines. Net Each............**$2.25**

Taco Model 1850A—High Band, Channels 7-13 (indicate channel). Shipping Weight, 6½ lbs. Net Each.......... **$7.50**

Taco Model 1851A—High Band, Channels 7-13 (indicate channel). Shipping Weight, 14 lbs. Net Each..... **$15.45**

Taco Model 1852—Stacking Lines (indicate channel). Net..**75c**

FOUR-STACK BOW TIE



A high gain UHF antenna where stability and sensitivity are required. The four flat VEE antennas are stacked and tuned to cover the entire UHF band. Four Kralastic insulators are accurately aligned and riveted to the mast to keep the factory assembled elements accurately positioned. High grade alloy elements eliminate picture flutter. Single forward lobe with excellent front-to-back ratio does much to eliminate ghost effects in critical locations. Large frontal collector area presented by the four bow-ties eliminates touchy hot spots. Saves time in hunting best signal location. Very high directivity. Model 3006C incorporates Taco's "Quick-Rig" assembly principle so that it is necessary only to snap the elements into place, tighten the wing-nuts, and the antenna is ready to install. The array is mounted on a 4-foot mast which is ideal for installation where the existing mast must be extended. Or, the antenna may be mounted directly to the existing mast. Necessary fittings are included for both types installation. By using stacking kit 3035D, antenna may be double stacked.

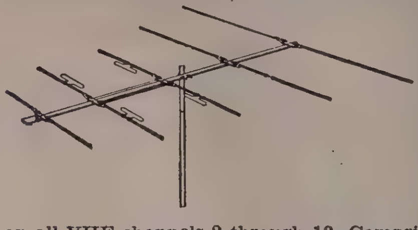
Taco 4-Bay UHF Antenna—Factory assembled. May be installed on top of mast, directly into rotor or against mast.

Taco Model 3006C—Net Each...... **$6.90**

Taco Model 3034C 4-Bay UHF Antenna—For mounting against mast. Factory assembled. Net Each..................**$6.45**

Taco Model 3035D Stacking Kit—Side by side mounting. **$2.97**

"TRAPPER" BROAD-BAND VHF CO-YAGI



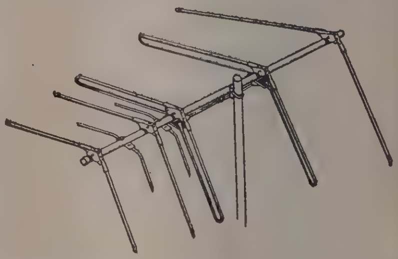
The first high gain all channel VHF co-linear Yagi. Newly developed phasing elements multiply effectiveness of the driven elements on high band channels where additional gain is usually required. Provides true Yagi performance and gain on all VHF channels 2 through 13. Comprises a forward director with auto-match stubs, two tuned driven elements with auto-match stubs, one tuned high band reflector and one low band reflector. Installation is facilitated by use of the Taco Jiffy-rig assembly method. For fringe and ultra-fringe installations, two standard Trapper antennas are used with the associated stacking equipment supplied as part of the antenna package. The Trapper is mechanically ideal for use with rotor because it is mechanically balanced, compact and offers minimum wind resistance. **$10.92**

Taco Trapper Model 1880—Net Each..............

Taco Model 1882—Stacking Lines. Net Each.............**90c**

Taco Model 1883—Wide Space Stacking Lines. Net Each **$2.25**

NEW "SHARK" TWIN DRIVEN VHF ANTENNA



With excellent low band and high band performance, the "Shark" continues the modern trend in antenna design. Comprises seven elements that fully cover the 12 VHF channels. Ease of assembly, stable operation and excellent mechanical construction assure long trouble-free operation. The single lobe performance, free from detrimental side lobes, makes the "Shark" an outstanding choice for color television as well as black and white. The "Shark" introduces a two-diameter element coupled with a folded dipole, achieving an element combination that maintains a 300-ohm impedance match over both the high and low band VHF channels as well as over a major portion of UHF.

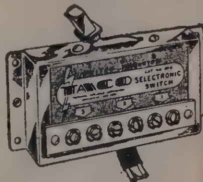
Taco Model 1845B—7-element Twin-Driven VHF Antenna. Net Each.............................. **$10.92**

Taco Model 1847—2-Bay Stacking Kit for two 1845B Antennas. Net Each..**90c**

Taco Model 1848—As 1847, but emphasizes hi-band gain. Net Each..**$2.25**

ACCESSORIES

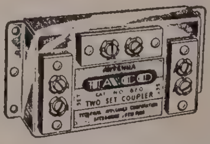
TV ANTENNA SWITCH MODEL 873



A highly efficient, low loss switch for selecting up to three individual circuits quickly. Two or three antennas may be switched into a single line. May be used for hi-fi installations to switch speakers. Also may be used to switch lead-in to one of several TV sets for demonstration.

Taco Model 873—Net Each.................... **$1.95**

TV MULTI-SET COUPLERS



An efficient method of dividing signals from one antenna equally among several TV receivers. Extensively used in high signal areas. Suffix number indicates number of sets coupler will serve.

Taco Model 820-2—Net Each.. **$1.65**

Taco Model 820-3—Net Each.. **$1.80**

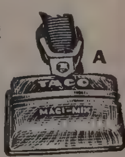
Taco Model 820-4—Net Each.. **2.10**

Weatherproofed Multi-Set Couplers for outdoor use, incorporating same features as above units.

Taco Model 825-2—(Fig. A below). Net Each.......... **$1.80**

Taco Model 825-3—(Fig. A below). Net Each..........**$1.95**

TV ANTENNA COUPLERS



Match any antenna combination. Magi-Mix Couplers in four models meet the requirements of all antenna installations. Weatherproofed, easy to use terminals and simplicity of mounting plus high "Q", resonant "T" filter. Used to combine television signals from two or three antennas into a single transmission line, reducing installation cost and simplifying operation of the TV receiver.

Model 1425A—VHF hi/lo Magi-Mix. Combines the signals from low band (2-6) and high band (7-13) antennas, either all channel or channelized, feeding signals into a single transmission line. Net Each...................... **$2.38**

Mast Mounted Antenna Transformer. Matches 300-ohm antenna to 72-ohm coaxial line.

Taco Model 1597—(Fig. A above). Net Each.......... **$3.06**

TV Outlet Transformer. Matches 72-ohm coaxial line to 300-ohm receiver input.

Taco Model 1570—(Not illus.). Net Each............. **$3.33**

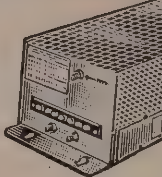
TV Distribution System, Tuners

JERROLD MULTI-OUTLET SYSTEM

ABD-1 DISTRIBUTION AMPLIFIER

High-gain, low-noise amplifier covering channels 2-13. Provides the key to superior TV distribution for small, economical systems. Combining latest cascode circuitry and new mechanical design, the ABD-1 delivers strong, snow-free pictures and keeps installation costs to a minimum. **Gain:** 25 db. **Impedance:** 72 or 300 ohms in, 72 ohms out. **Max. Rated Output:** 0.1 v./channel (7 channel operation). **Max. Rated Input:** 5500 μv. **Noise Figure:** 6 db low band, 7.5 db high band. **Tubes:** 3-6BQ7A; 1-6AK5; 1-6CB6. **Cable Fittings:** 72 ohms (3) C-61; 300 ohms, screw terminals. **Fuses:** B+, 1/10 amp. slo-blo; Pri., ½ amp. slo-blo. **Dimensions:** 11″ x 4″ x 5″. **Shipping Weight:** 7 lbs., 7 oz. **Power Requirements:** 117 volts AC, 50-60 cps, 35 watts.

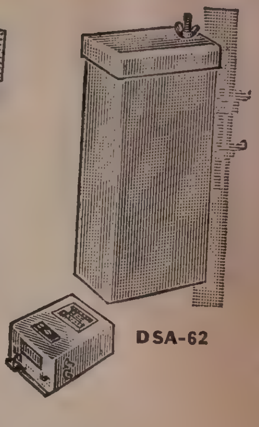
Jerrold Model ABD-1 Distribution Amplifier—Net Each.......... **$59.70**

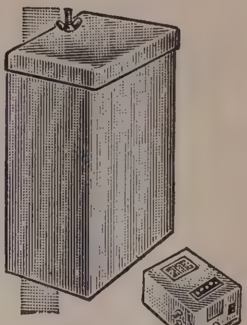

ABD-1

DSA-132 DE-SNOWER PREAMPLIFIER

Brings your tuner to the antenna. The only way to step up gain of modern cascode tuners without stepping up snow. Power supply mounts on back of receiver. **Gain:** 25 db Channels 2 to 13. **Frequency Response:** ±1 db Channels 2 to 13. Flat for COLOR. **Noise Figure:** 6 db Channels 2 to 6; 7.5 db Channels 7 to 13. **Single Cable Operation:** One coax cable carries 24 volt power up to preamplifier, signal down to receiver. **Power Supply:** Input, 117 volts, 60 cycles; Output to preamp, 24-28 volts. **Inputs:** One 2 to 6 and one 7 to 13 antenna or one 2 to 13 antenna, 72 or 300 ohm. **Output:** 72 or 300 ohm, 0.1 volt/channel, 0.5 v. composite. **Tubes:** 3-6BQ7-A; 1-6AK5; 1-6CB6. **Size:** Preamplifier 5″ x 5″ x 1¼″ overall. **Power Supply:** 2½″ x 5½″ x 7¼″ overall. **Shipping Weight:** 12¾ lbs. "Iridite" weatherproof finish on preamp.

Jerrold Model DSA-132 De-Snower Preamplifier—Net Each........ **$65.70**


DSA-62


DSA-132

DSA-62 DE-SNOWER PREAMPLIFIER

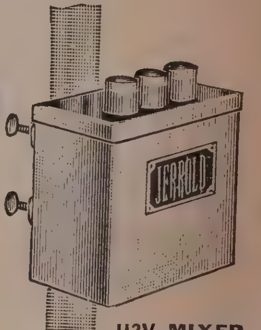
Same as Model DSA-132 except for channels 2 to 6 only. All specifications are the same except as noted herein. **Inputs:** One 2 to 6 antenna, 72 or 300 ohm. **Outputs:** 72 or 300 ohm, 0.1 volt/channel, 0.5 composite. **Tubes:** 1-6BQ7-A; 1-6CB6. **Size:** Preamplifier 2½″ x 5″ x 10¼″ overall; Power Supply 2½″ x 5½″ x 7¼″ overall. **Shipping Weight:** 8¼ lbs.

Jerrold Model DSA-62 De-Snower Preamplifier—Net Each......... **$54.00**

U2V UHF CONVERTER

Top mounted mixer head converts right at the antenna. The UHF oscillator is mounted at the amplifier location (or at the TV receiver) and feeds signals for conversion up to the mixer. Signals leave mixer as VHF so coaxial cable may be used. Will convert any UHF channel to VHF. Order by specifying UHF channel to be converted to a specific VHF channel. **Mixer Head:** UHF Input double cavity tuned, 10 mc bandwidth, 72 ohms. VHF Output 72 ohms. Mixer Crystal, CK 710 or CK 731. **Dimensions:** 4¼″ x 4 9/16″ x 2 9/16″. **Weight:** 1 lb., 13 oz. **Mounting:** Mast mounted, brackets and straps supplied. **Oscillator:** Tubes: 1-6AF4; 1-OB2. **Output:** 1.0 v. RMS. **Power Requirements:** 117 v. AC, 50-60 cps, 25 watts. **Dimensions:** 4½″ x 5½″ x 7″. **Weight:** 3½ lbs. **Mounting:** May be mounted either horizontally or vertically.

Jerrold Model U2V UHF Converter—Shipping Wt., 7 lbs. Net Each. **$74.70**

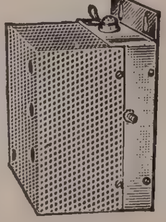


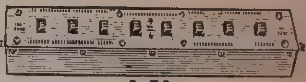
U2V MIXER

A-72 VARIABLE RF ATTENUATOR

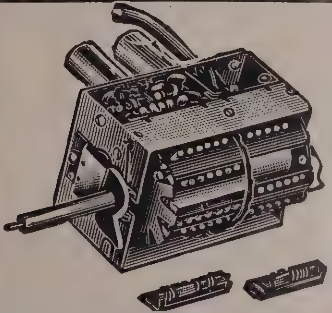
Provides precise attenuation from 0 to 82 db by simple "IN" and "OUT" switches. Designed for use with 72 ohm coax cable, it is linear from 0 to 250 mc. V.S.W.R. less than 1.05 when properly attenuated. Accuracy ±1.0 db at maximum attenuation. Insertion loss less than 0.5 db at 200 mc. Capable of handling 500 milliwatts CW.

Jerrold Model A-72 RF Attenuator—Net Each.................... **$54.50**


U2V OSC.


A-72

STANDARD COIL TUNERS



Improved VHF front end TV Tuners using 6BQ7A or 6BZ7 RF amplifier tube and 6J6 oscillator-converter. For direct replacement in sets having split-sound or intercarrier systems. Requires 250 v. power supply for tubes.

Standard Coil No. TCA-050—Super Cascode Tuner factory set at 22.3 mc, adjustable IF to any frequency in 19-26 mc range. 5⅜″ high x 3⅜″ wide x 5″ deep. 2¼″ above chassis. Weight 2¾ lbs. Net Each......... **$19.85**

Standard Coil No. TD-050—As above except for sets in 41 mc range. Gives overcoupled response of approx. 3.5 mc peak-to-peak. Net Each......................... **$21.85**

Standard Coil No. TAA-050—Pentode Circuit Tuner for 21 mc range. Uses 6BC5 RF Amp. and 6J6 Osc. Mixer. Factory set at 22.3 mc, but adjusts in 19-26 mc range. Net Each **$18.35**

Standard Coil No. TB-050—As above, except for sets in the 40 mc range. Gives overcoupled response of approx. 3.5 mc peak-to-peak. Net Each......................... **$19.85**

UHF TV STRIP SETS

For conversion to permit reception of UHF by replacing unused VHF strips of existing Standard Coil Tuner. Complete set for each unit includes one antenna strip and matching oscillator segment. To order, check identifying letter on both antenna strip and oscillator segment (F or F/G, H, K, Q, R, Q/R and U) and state this letter when ordering. Also state channel desired (14 through 83). Average Shipping Weight 6 oz. List Price $11.25. Net Each.................................. **$7.50**

VHF COIL STRIPS

For replacement in Standard Coil VHF Tuners. Each unit includes one antenna strip and one oscillator strip. When ordering specify identifying letter on both antenna strip and oscillator strip (F, H, K, Q, R, Q/R, U) and channel required (2 through 13). Net Each Set.................................. **$1.50**

NO. 1011 REPLACEMENT PARTS KIT

104 small TV tuner parts at your finger tips. This kit is compact, sturdy and fully labeled for quick reference. It gives you the most-called-for parts needed in servicing Standard tuners series TV-200, TV-1500, TV-2000 and TV-2200. Each item (except the very small) individually boxed. Purchase of this kit saves approximately 11% of individual cost.

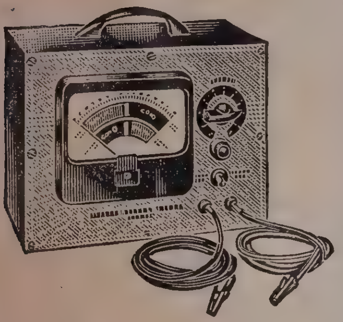
Standard Coil Kit No. 1011—Net Each.............. **$22.50**

REPLACEMENT PARTS FOR STANDARD COIL TUNERS

Standard Coil Part Number	Description	Series Used On	Net Each
9YS436-10PC-7	Screw, Trimmer	U	$0.06
10E-406	Nut, Trimmer Spring	U	.06
11D-022	Washer, Fiber	All except U	.06
16S-009	Tube Shield	All except U	.10
16S-011	Tube Shield	All exc. F, H	.12
16S-012	Shield, Tube (mixer)	T type	.10
16S-013	Shield, Tube (RF)	T type	.10
23A-079	Spring, Shaft Retainer	TV-9000	.06
31A-010	Spring, Osc. Slug	All	.06
31A-010-02	Spring, Osc. Slug	F	.06
31A-010-03	Spring, Slug and Coil	TV-9000	.06
31A-056-1	Dowel, Trimmer	U	.30
31A-067	Sound Trap Assembly	F	2.65
31A-082	IF Coil Assembly	F	.45
31A-152	Ring, Retaining	U	.06
31B-008	Spring, Fine Tuner	All except U	.06
31B-029-02	Osc. Tuning Slug	All	.06
31B-030	Retainer Spring (Drum)	All except U	.06
31B-041	Slug, Tuning	TV-6500	.06
31B-103	Shield, Bottom Cover	H, K, Q, R, Q/R	.75
31B-124	Gnd. Plate, Fine Tuner	F, H, K, Q, R Q/R	.12
31B-137-02	Retainer, Spring Drum, Front	TV-5100	.15
31B-137-03	Retainer, Spring Drum, Rear		.15
31B-178	Shield, Side Cover	All exc. F, U	.12
31B-203-180	Coil Support Assembly	R	2.70
31B-206	Trimmer Kit (exc. Ant.)	All except U	.21
31B-207	Trimmer Kit (Antenna)	All except U	.21
31B-278	Plate, Contact w/Brkt.	All except U	2.25
31B-682(A)	IF Coil Assembly	R, Q/R	.45
31K-108	Spring, Fine Tuner and Rocker Grounding	U	.06
31K-118-02	Spring, Drum Shaft Ret.	U	.06
31K-163-01	Blade, VHF Fine Tuning	U	.30
31K-225-01	Filter Assy., Ant. Input	U	4.50
31K-226	Term. Bd. Assy., Power	U	.15
31K-525	Spring IF Rocker, Rear	U	.06
31K-800	Shield Cover, Side & Bot.	U	.60
31K-801	Dummy Rocker	U	1.35
31K-827	Washer, Spring	U	.06
31K-835	Arm, Pivot	U	.15
31K-886	Link & Shaft Assembly	U	.35
31K-887	Board Assembly, Contact	U	1.90
XM-752	Sound Take-Off Coil	H, K, Q	1.14

TV Antennas and Components

KIRBY FLYBACK TRANSFORMER TESTER MODEL 98



The Kirby Flyback Tester is the answer to fast and sure horizontal circuit trouble-shooting. It is extremely compact and portable. Tests for shorted turns in transformers and responds to as small a defect as one turn short. By direct comparison with a stock item any television flyback transformer can be tested while still in the receiver. Tests for continuity in winding of any flyback transformer, on yokes, coils, speakers, switches, etc. Engineered to provide for testing of flyback transformers which may be developed in the future.

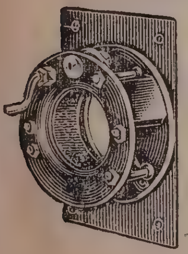
SPECIFICATIONS

Operates on 115-volt, 60 cycle AC, using only 15 watts of power Uses a sensitive 50 microampere meter. A numbered scale is provided to allow set-up for any new developments in flyback transformers and to provide extremely accurate comparison readings. An averaged direct reading Good-Bad Scale is provided for rapid test without comparison. Uses a 6K6 power amplifier tube. Self-contained oscillator operates at a nominal frequency of 1500 cycles per second and is interrupted 60 times a second to help jar intermittents into activity. Rugged metal case 6⅝" x 8⅝" x 4". Carrying weight only 5 lbs. 4 oz. Shipping Weight 6½ lbs.

Kirby Number 98—Flyback Tester with set of four-foot test leads and clips. Net Each.......................... **$34.95**

QUAM TV COMPONENTS

FOCALIZER* UNITS



For sharper focus, unaffected by change in temperature or voltage. Easy to install. For replacement in or rebuilding of TV sets for larger tubes. Consists of Focalizer*, a centering handle, aluminum mounting plate, screws and nuts and instructions. 3⅜" OD x 1¼". Weight, 1½ lbs.

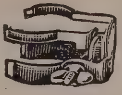
Kit Q F 1—For most picture tubes with anode voltages up to 12kv. Net Each.......................... **$2.85**

Kit Q F 2—Anode V. 12-15kv. Net. . **$3.57**

Kit Q F 3—Used for picture tubes with anode voltages of 15-18kv. Net Each. **$3.57**

*Trade Mark.

ION TRAPS



A

Models I T 1 and **I T 2** (A) for replacement on magnetically focused picture tubes of straight gun type With wing nut and binding screw.

Models I T 3 and **I T 4** (B) are single field, spring-mounting types for bent-gun-type picture tubes. Each type individually packed, with instructions.

B

I T 1—38 Gauss. Picture tubes to 10". Net Each.......................... **90c**

I T 2—46 Gauss. Picture tubes to 10". Net. . . **90c**

I T 3—35 to 45 Gauss. Net Each........... **60c**

I T 4—45 to 55 Gauss. Net Each........... **60c**

GEMCO TELEVISION COMPONENTS

TWO SET COUPLERS

High-Q windings make these couplers extremely low loss units. No condensers, no resistors used. Ideal to replace older high loss couplers. Provide unbelievable net gain results.

Gemco Model 411—"Bi-wigger". Hi-Q RF transformers. Net Each.......................... **$1.75**

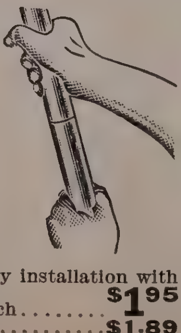
Gemco Model 412—"Sayre-fyne". Hi-Q magnetic core transformers. Net Each.......................... **$3.00**

THERMAL RESISTORS

Gemco Thermal Resistors are designed for exact replacement of GE Globars. Order by resistance value required.

Gemco Thermal Resistors—Net Each.................. **95c**

J & L PERMA-TUBE



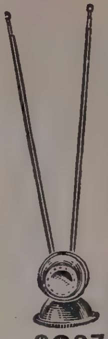
J & L Perma-Tube has strength, lightness and all the other basic advantages necessary for mechanical tubing purposes where strength, rigidity, rust-resistance and attractive appearance are desired. Its high corrosion resistance is due to a special coating of Vinsynite and a finish coating of an aluminum-pigmented vinyl resin base. Can be cold-formed to limits which approach those of steel itself before coating is affected. When an end of a Perma-Tube is expanded and fitted over another section, a strong, weather-resistant joint is formed. Tubes are 1¼" in diameter, of 16 gauge material. Comes in 10 ft. length for easy installation with minimum of cutting.

J & L Perma-Tube—10-ft. long tube. Net Each........ **$1.95**

J & L Perma-Tube—In box of 14. Net Each........... **$1.89**

RADION INDOOR ANTENNAS

MODEL QTA-3 INDOOR ANTENNA



Designed specifically for indoor use—with all receivers. Fully assembled, complete with 300 ohm transmission line. Can be mounted on the set, wall, ceiling, table, window sill, etc. Mahogany bakelite base, polished plated tubular arms. Stands 19" high. Weighs 2 lbs. Tubular arms extend to 32", telescope to 19". Individually packed. 12 to a carton. Shipping Weight, 22 lbs.

Radion No. QTA-3—Net Each............ **$2.50**

MODEL TA-45 INDOOR ANTENNA (NOT ILL.)

Three-section tubular aluminum alloy dipoles extended to a full 92 inches. Automatic ratchet holds them where they are wanted, no sagging. Mahogany colored phenolic base is weighted to prevent tipping. Base is felt-covered to prevent scratching cabinet tops. Complete with 300-ohm transmission line.

Radion No. TA-45—Net Each.......................... **$2.07**

Radion No. VTA-2—Indoor dipole similar to above except dipoles are two-section aluminum. All other quality features. Complete with 300-ohm transmission line. Net Each..... **$1.77**

MODEL UVTA-2Q INDOOR UHF-VHF ANTENNA

UVTA-2Q

- **IDEAL FOR CITY INSTALLATIONS**
- **ATTRACTIVELY STYLED**

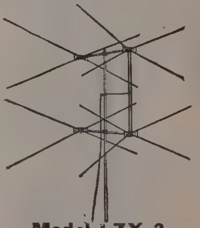
The Super Bullseye is the ideal indoor antenna for areas either having UHF and VHF or with UHF in the near future. It is attractively styled to blend well with any home furnishing scheme. Finished in the smart rose-gold colored anodized aluminum with a mahogany phenolic base. The base is weighted and felt padded. It won't tip or scratch. Comes complete with lead-in for instant attachment to set or converter. Simply turn loop until best reception angle is found.

Radion No. UVTA-2Q VHF-UHF Antenna—Net Each... **$4.17**

Radion No. UTA-1 Bullseye Indoor Antenna—Same as Super Bullseye but is for UHF reception only. Net Each....... **$2.97**

C-D RADIART

"LAZY X" CONICAL ANTENNAS

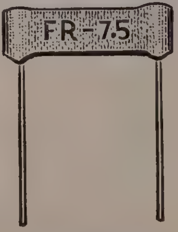


Model LZX-2

C-D Radiart's most popular all-channel VHF television antenna. The "Lazy X" type conical antenna, pioneered by Radiart, has been accepted as a leading all-channel VHF antenna. Sturdy construction with all elements made of extra heavy wall, "high flexure" strength butt-seam aluminum tubing. Doweled with wood dowels. Rigid quality control throughout production assures long trouble-free service and high electrical efficiency. The "Lazy X" is designed to be quickly assembled and easily installed.

Model	Description	Net Each
LZX	Single bay, with reflectors, less mast	$ 4.17
LZX-M	Single bay, with 4', 1⅛" mast, swivel base	5.31
LZX-MA	Above, with sectional 8' mast, guy ring, swivel mounting base, stand-off insulator.	5.97
LZX-2	2 LZX bays, 8' mast, ¼-wave jumpers (AK-50)	10.17
LZX-4	4-LZX bays, 2-AK-50 kits, 1-AK-51 kit (phasing bars and terminal block). Less mast.	19.95
LZX-2L	2-LZX bays, ¼-wave jumpers, less mast.	8.97
	BULK PACK "LAZY-X" ANTENNAS	
LZX-6B	6 "knocked-down" LZX bays in 1 master carton.	$24.39
LZX-6BQ	6 "knocked-down" LZX bays and 3 AK-50 kits in one master carton.	26.16
LZX-6BE	6 "knocked-down" LZX bays, consisting of: 4 front elements, 2 reflector elements, front and rear "Universal" brackets, steel cross arm and mast clamp hardware, per bay, in 1 master carton.	20.97

OHMITE FUSE RESISTOR

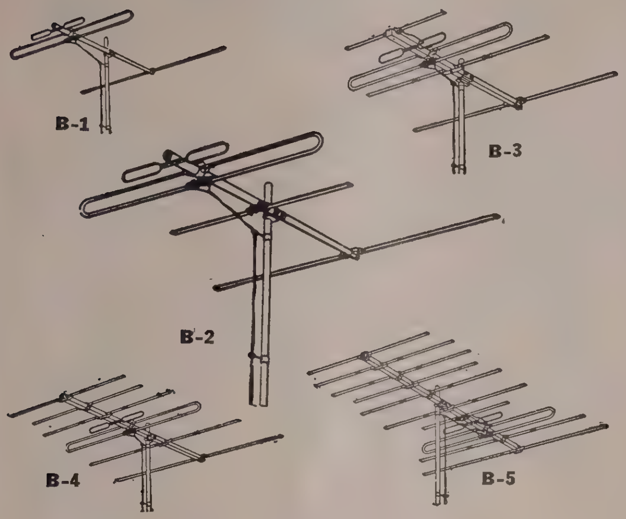


Solders to the plug-in mounting strip or under the chassis. This special 7.5-ohm resistor replaces any fuse resistor used in television. It is a must to every serviceman. It is furnished with 1½" tinned wire leads for easy replacement when servicing the set. Just solder it to the plug-in mounting strip, or in the circuit under the chassis. Plug-in mounting strip included with every fuse resistor.

Ohmite No. FR-7.5—7½-ohm Fuse Resistor and mounting strip. Net Each.......................... **39c**

TV Antennas, Components

NEW FINCO® GEOMATIC VHF ANTENNAS



A complete line of Boom-Type TV Antennas for superb performance on both High Band and Low Band. All Geomatics feature **Fidelity Phasing** for exceptionally high degree of accuracy in the reproduction of the TV signal. Fidelity Phasing combines the finest features of an impedance matching, driven folded dipole on low band with the super-gain of a three-element colinear on high band without the use of a bulky, vulnerable matching harness. Also, the Geomatic provides extremely high front-to-back ratio. The Geomatic's extremely flat frequency response of less than 1 db on any channel assures excellent reception of color programs. Constructed throughout of extra-heavy gauge aluminum. Models B-1 and B-2 use heavy tubing for the boom, while Models B-3, B-4 and B-5 have box-girder type boom. Antenna is fully assembled at factory and shipped folded, ready to open and set up. All elements snap easily into place, properly aligned, held permanently in place by the exclusive "Lock-Tite" saddle bracket, preventing bent, twisted, out-of-position elements. Five models, each customized to its particular location, are available for areas from close-in metropolitan areas (Model B-1) to the long-reaching Model B-5 for areas up to 200 miles or more away from the television station. All models may be stacked, using the stacking kits listed.

Finco Model B-1 Geomatic Antenna—An "in-town" type of antenna that makes use of a low-band reflector, a folded dipole and the fidelity phasing stub. Effective in metropolitan and near suburban areas. Shipping Weight 3¾ lbs. Net Each $4.50

Finco Model S-1 Stacking Kit—For stacking B-1 Geomatics. Shipping Weight ½ lb. Net Each.................... $1.05

Finco Model B-2 Geomatic Antenna—A suburban and semi-fringe area antenna. Is made up of a low band reflector, a colinear high band reflector mounted on a special high-impact polystyrene insulator, a folded dipole and the fidelity phasing stub. Provides increased gain with exceptionally high front-to-back-ratio. Shipping Weight 3½ lbs. Net Each.................... $5.25

Finco Model S-2 Stacking Kit—For stacking two B-2 Geomatics. Shipping Weight ½ lb. Net Each.................... $1.05

Finco Model B-3 Geomatic Antenna—A powerful antenna for suburban areas all the way out to 75 miles or more. Comprises a low band reflector, a high band reflector, a folded dipole, the fidelity phasing stub and a combination director making up the three-element colinear high band reflector, the director being inductance tuned to combine both high and low band. Shipping Weight 5 lbs. Net Each.................... $8.10

Finco Model S-3 Stacking Kit—For stacking two B-3 Geomatics. Shipping Weight ½ lb. Net Each.................... $1.20

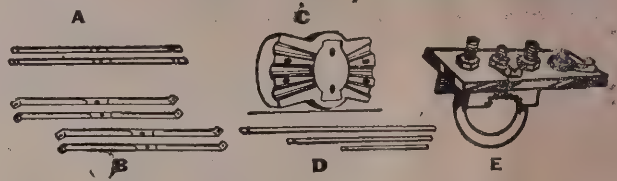
Finco Model B-4 Geomatic Antenna—For reaching out from the deep fringe area, 150 miles or more from the station. Elements include a low band reflector, a high band reflector, a folded dipole, the fidelity phasing stub, a low band director and a high band director making up the low band reflector, three-element high band reflector, low band full ½-wave director and two three-element colinear high band directors. Shipping Weight 6 lbs. Net Each.................... $10.50

Finco Model S-4 Stacking Kit—For stacking two B-4 Geomatics. Shipping Weight ½ lb. Net Each.................... $1.20

Finco Model B-5 Geomatic Antenna—The ultimate of the line. For reaching out from the maximum fringe area up to 200 or more miles from the television station. Includes multiple low band reflectors and directors, high band colinear reflectors and directors, as well as combination elements combined with fidelity phasing. Produces for the first time the ultra-high gain, sensitivity and directivity across the entire VHF Band (Channels 2-13) previously found only in 12-element, single channel Yagis. Shipping Weight 9½ lbs. Net Each.................... $19.20

Finco Model S-5 Stacking Kit—For stacking two B-5 Geomatics. Shipping Weight ¾ lb. Net Each.................... $1.50

TELCO TV HARDWARE, COMPONENTS



2-BAY STACKING BARS (FIG. A)

Two aluminum tubes complete with screws, nuts and lugs for connecting a 2- or 4-bay conical antenna. Made of ⅜" tubing. 44" long. Hard alloy aluminum.
Telco No. 8701—Two 44" tubes. Net Price.................... 75c

4-BAY PHASING BARS (FIG. B)

Four tubes for connecting a 4-bay conical antenna. Sturdy aluminum tubing formed with proper angle on each end for quick installation. Hard alloy aluminum.
Telco No. 8706—Four 48" tubes. Net Price.................... $1.26

CONICAL INSULATOR (FIG. C)

High-impact polystyrene. For replacement on antennas. Same as used on Telco antennas. No hardware included.
Telco No. 8857—Net Each.................... 39c

TV ANTENNA TUBING (FIG. D)

Standard tempered aluminum elements as used in conical antennas. ⅜" diameter tubing with .035" wall.
Telco No. 8711—48" length. Net Each.................... 39c
Telco No. 8712—44" length. Net Each.................... 36c
Telco No. 8713—20" length. Net Each.................... 21c
Telco No. 8715—Set of four each Nos. 8711 and 8712 and two each No. 8713 (10 elements in all). Net.................... $3.30

4-BAY OFF-SET INSULATOR (FIG. E)

Complete assembly for making a 4-stack antenna out of four single stacks or two double stacks. Insulators off-set to prevent shorting of elements to mast.
Telco No. 8707—Complete with hardware. Net Each.................... 84c

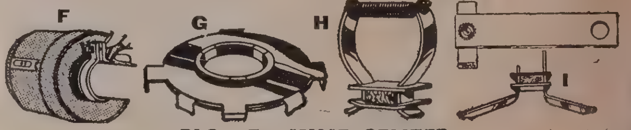


FIG. F—KINE-CENTER

For new electrostatic tubes. Easily and quickly mounted. Picture is centered by rotating two rings and stays centered with no distortion of focus.
Telco No. 8747—Net Each.................... $1.05

FIG. G—THREE-SECOND BEAM ADJUSTER

Centers TV pictures in 3 seconds. No drifting—it fits all tubes. Eliminates fancy tilting controls. Snap on back of tube yoke, rotate for approximate centering, slide outer plate vertically or horizontally for final vernier adjust.
Telco No. 8748—Net Each.................... $1.05

FIG. H—B. O. ELIMINATOR

Eliminates Barkhausen oscillation. These oscillations cause black bars to appear in TV pictures. Slip Eliminator over the tube, move up or down or turn until dark vertical lines disappear.
Telco No. 8749—Net Each.................... 75c

FIG. J—PINCUSHION TYPE 1

Reduces pincushion or fuzzy effect around edges of picture tube. Used on all of the newer sets. 3 3/16" overall.
Telco No. 8953—Net Each.................... 60c

PINCUSHION TYPE 2—Same as 8953 except for use with larger picture tubes. 4½" long.
Telco No. 8954—Net Each.................... 60c

FIG. I—PINCUSHION TYPE 3

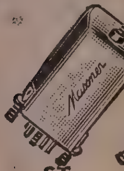
"Y" style. Keep a few of these in your service kit.
Telco No. 8955—Net Each.................... 75c

GEMCO ELLENBAGEN REFRACTORS

The Gemco Ellenbagen Refractor is an ingeniously designed self-leveling transformer wired in adapter form so that the bias, grid, cathode and anode voltages applied to the CRT remain unchanged. It increases the emission of a weak, "soft" or dark CRT, extending its useful life for as much as three or more years. A Gemco Ellenbagen Refractor can be installed in less time than it takes to replace any tube in the receiver. No wiring, no soldering. Just plug it in. The improvement is immediately noticed.

Model 10—For correcting "soft", weak or dark CRT on 7" electrostatic tube in parallel circuit; also adaptable to any size CRT including projection. Net Each.................... $1.25
Model 11—Same as Model 10, but series circuit. Net.... $1.80
Model 23—For correcting "soft", weak or dark CRT in conventional parallel circuit. Net Each.................... $2.90
Model 25—For correcting "soft", weak or dark CRT where pin No. 6 on the CRT is the extra grid—electrostatic focus picture tubes parallel circuit. Net Each.................... $3.15
Model 27—For correcting "soft", weak or dark CRT where the filament of the CRT is a series circuit—GE, Silvertone, Teletone, etc. Net Each.................... $3.55
Model 30—**NEW.** For correcting "soft", weak or dark CRT in series circuit electrostatic focus. Net Each....... $3.60

Meissner TV Components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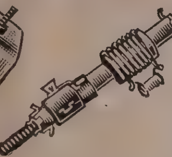
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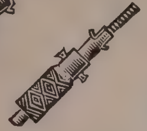
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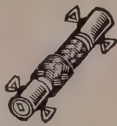
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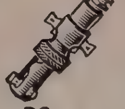
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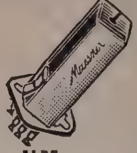
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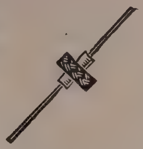
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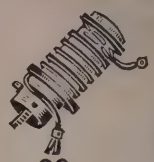
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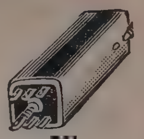
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I. F. TRANSFORMERS

Meissner No.	Fig.	Application	Frequency		Mtg. In.**	Size, In. H. x W.*	Net Each
			MC	Trap			
17-3489	.....	Input-Interst.	4.5		Snap	2 x ¾S	$1.74
17-1021	ST	Input-Interst.	4.5		1⅛	2½x1⅛S	1.65
17-3495	UM	Input-Interst.	4.5		Clip	2 x ¾S	1.62
16-3445	ST	Input-Interst.	4.5		15/16	2 x ⅞S	.75
17-1071	ST	Input-Interst.	4.5		15/16	1½x ⅞S	1.65
17-3412	IF	Interst. Sound	4.5		5/16h	1¼x ½D	.75
17-1034	ST	Sound IF	4.5		15/16	1½x ⅞S	1.08
17-1025	ST	Sound Take-off	4.5		15/16	1½x ⅞S	1.65
17-1031	ST	Sound Take-off	4.5		15/16	1½x ⅞S	.75
17-3400	IF	Sound Take-off	4.5		5/16h	1½x ½D	.75
17-3401	IF	Sound Take-off	4.5		7/16h	1⅜x ½D	.75
17-3402	IF	Sound Take-off	4.5		5/16h	1½x 7/16D	.75
17-1011	ST	Input Sound IF	21.25		15/16	2¼x ⅞S	1.26
17-1012	ST	Output Snd. IF	21.25		15/16	2¼x ⅞S	1.26
20-1048	ST	Sound IF	21.25		15/16	1 11/16x ⅞S	1.80
17-1020	ST	Converter	21.8		15/16	2¼x ⅞S	1.65
17-1001	ST	1st Video IF	25.3	27.25	15/16	2¼x ⅞S	1.65
17-1002	ST	2nd Video IF	22.3	19.75	15/16	2¼x ⅞S	1.26
17-1003	IF	3rd Video IF	25.2		5/16h	1⅛x 5/16D	.45
17-1004	IF	4th Video IF	23.4		5/16h	1⅛x 5/16D	.45
17-1062	IF	2nd Video IF	25.7		5/16h	1½x ⅜D	.90
17-1063	IF	3rd Video IF	23.4		5/16h	1½x ⅜D	.90
17-1064	IF	4th Video IF	25.7		5/16h	1½x ⅜D	.90
#17-1066	IF	Video IF	21.5		5/16h	1½x ⅜D	.90
17-1005	IG	1st Video IF	25.5	27.25	5/16h	2½x ¾D	1.50
17-1006	IG	2nd Video IF	22	21.2	5/16h	2½x ¾D	1.50
17-4507	.....	1st Video IF	22	19.75	15/16	2⅜x1 S	2.40
17-4508	IF	5th Video IF	22.5		5/16h	1⅜x 5/16D	.75
17-4512	ST	1st Video IF	22.25	27	15/16	2..x ⅞S	2.10
17-4500	IG	Converter	43.1	41.6	5/16h	2½x ⅝D	1.50
17-4501	IG	1st Video IF	43.5	39.75	5/16h	2 9/16x ⅝D	1.50
17-4502	IG	2nd Video IF	45.75	47.25	5/16h	2 9/16x ⅝D	1.50
17-4503	ST	3rd Video IF	43	39.75	15/16	2¼x ⅞S	1.80
17-4504	ST	4th Video IF	44.2	47.25	15/16	2¼x ⅞S	1.80
‡17-4521	ST	1st Video IF	45.75		15/16	2¼x ⅞S	.75
17-4522	IF	2nd Video IF	43		5/16h	1⅜x ½D	.75
†17-4523	IF	3rd Video IF	45.5		5/16h	1¼x ½D	.75
†17-4524	IF	4th Video IF	44.5		5/16h	1¼x ½D	.75
17-5000	UM	Converter	44		Clip	2 x ¾S	1.44
17-5001	UM	1st Video IF	44		Clip	2 x ¾S	1.44
17-5002	UM	2nd Video IF	42.5	41.25	Clip	2 x ¾S	1.20
17-5003	UM	3rd Video IF	45.5	47.25	Clip	2 x ¾S	1.44
17-5004	UM	4th Video IF	44		Clip	2 x ¾S	1.02
17-5010	.....	Converter	44		Snap	2 x ¾S	1.56
17-5011	.....	1st Video IF	44		Snap	2 x ¾S	1.56
17-5012	.....	2nd Video IF	42.5	41.25	Snap	2 x ¾S	1.56
17-5013	.....	3rd Video IF	42.5	47.25	Snap	2 x ¾S	1.56
17-5014	.....	4th Video IF	44		Snap	2 x ¾S	1.02
17-4518	ST	1st Vid. IF Grid	44	41.25	1⅛	2¼x1⅛S	3.30
17-4519	ST	1st V. IF Plate	44	39.75	15/16	2¼x ⅞S	2.40
17-4520	ST	2nd V. IF Grid	44	47.25	15/16	2¼x ⅞S	2.10
17-4505	ST	Converter	40		15/16	2¼x ⅞S	1.50
17-4531	ST	1st V. IF Grid	44	39.25	15/16	2 x ⅞S	1.80
17-4532	ST	1st V. IF Plate	44	41.25	15/16	2¼x ⅞S	1.80
17-4533	ST	2nd V. IF Grid	44	47.25	15/16	2¼x ⅞S	1.65
17-4509	ST	2nd Video IF	45		15/16	3 x ⅞S	2.40
17-4511	ST	4th Video IF	43.7 (Incl. 1N64 Xtal)		1⅛	1½x1⅛S	3.60
17-4514	ST	5th Video IF	43.7 (Incl. 1N60 Xtal)		1⅛	1½x1⅛S	3.60

RATIO DETECTORS, DISCRIMINATORS, QUADRATURES

17-1033	ST	Ratio Detector	4.5		1⅛	2½x1⅛S	$1.98
17-3493	ST	Ratio Detector	4.5		1⅜	2½x1⅜S	1.98
17-3497	UM	Ratio Detector	4.5		Clip	2 x ¾S	1.98
17-3499	.....	Ratio Detector	4.5		Snap	1¾x ¾S	2.10
17-1023	ST	Discriminator	4.5		1⅛	3 x1⅛S	1.80
17-3496	UM	Discriminator	4.5		Clip	2 x ¾S	1.92
17-3490	.....	Discriminator	4.5		Snap	2 x ¾S	2.04
17-1031	ST	Quadrature	4.5		15/16	1½x ⅞S	.75
20-1005	IF	Quadrature	4.5		5/16h	1½x ½D	1.20
17-1043	ST	Ratio Detector	21.25		1⅛	2½x1⅛S	1.98
17-1045	UM	Ratio Detector	21.25		Clip	2 x ¾S	1.98
17-1035	ST	Discriminator	21.25		15/16	2½x ⅞S	2.40
17-1013	ST	Discriminator	21.25		1⅛	1¾x1⅛S	1.65
17-1047	UM	Discriminator	21.25		Clip	2 x ¾S	1.98

*Dimensions with suffix S are square, with suffix D are round. #Shunt 56K ohms. ‡Pri. Shunt 22K ohms. †Shunt 27K ohms. **Dimensions with "h" are holes, as 5/16 hole.

TUNABLE CHOKES (FIG. IF)

Meissner No.	Frequency MC	Mounting	Dimensions H.	Dimensions Dia.	Net Each
19-1021	21-25 with 10 μμf	7/16″ hole	1⅜″	½″	$0.60
19-1020	21-25 with 10 μμf	5/16″ hole	1⅜″	½″	.60
19-1023	25-29 with 10 μμf	7/16″ hole	1½″	½″	.72

VIDEO PEAKING COILS (FIG. RT)

Provided with tinned wire leads for ease of connection.

Meissner Number	Fig.	Induct. μh	Shunt Resist.	Dimensions		Net Each
				Form Lgth.	Coil Diam.	
19-3001	RT	.8	None	¾″	5/16″	36c
19-2864	SM	10.9	None	¾″	9/16″	66c
19-1006	SW	15	None	⅞″	7/32″	36c
19-3036	RT	36	None	¾″	7/16″	
19-4036	RT	36	10 Meg.	½″	5/16″	
19-4060	RT	60	22K	½″	5/16″	
19-4073	RT	73	10 Meg.	½″	⅜″	
19-3075	RT	75	None	¾″	5/16″	
19-3093	RT	93	None	¾″	7/16″	36c
19-4093	RT	93	10 Meg.	½″	7/16″	
19-3100	RT	100	None	¾″	7/16″	
19-4121	RT	120	8.2K	½″	7/16″	
19-4120	RT	120	12K	½″	7/16″	
19-4121	RT	120	22K	½″	7/16″	
19-3125	RT	125	None	¾″	7/16″	36c
19-4125	RT	125	22K	½″	7/16″	
19-3160	RT	160	None	¾″	7/16″	
19-4160	RT	160	22K	½″	7/16″	
19-3180	RT	180	None	¾″	7/16″	
19-4180	RT	180	39K	½″	7/16″	
19-4201	RT	200	None	½″	7/16″	36c
19-4200	RT	200	10K	½″	7/16″	
19-3250	RT	250	None	¾″	7/16″	
19-4250	RT	250	22K	½″	7/16″	
19-4251	RT	250	10 Meg.	½″	7/16″	
19-3300	RT	300	None	¾″	7/16″	
19-4400	RT	400	None	½″	7/16″	36c
19-4412	RT	412	8.2K	⅝″	7/16″	
19-3500	RT	500	None	¾″	½″	
19-4500	RT	500	10 Meg.	½″	7/16″	
19-3660	RT	660	None	¾″	½″	
19-4840	RT	840	3.3K	½″	½″	
19-4950	RT	950	None	½″	½″	
19-5100	RT	1000	10K	½″	½″	
19-5101	RT	1900	None	⅞″	9/16″	60c
19-5102	RT	6700	None	⅞″	11/16″	90c

PERMEABILITY TUNED SOUND AND CATHODE TRAPS (FIG. IF)

Meissner No.	Use	Freq. MC	Shunt	Mtg.	Net Each
20-1045	Cathode Trap	41.8	22K 26 μμf	5/16″ hole	$1.20
20-1004	Sound Trap	4.5	47 μμf	5/16″ hole	.75
20-1005	Sound Trap	4.5	10 μμf	5/16″ hole	1.20
20-1021	Cathode Trap	21.25	47 μμf	7/16″ hole	1.20
20-1006	Trap	27.25	47 μμf	5/16″ hole	1.20
20-1049	Trap	47.25	None	5/16″ hole	.90
17-6016	Trap Pri.	3.58	27K 33 μμf	5/16″ hole	.90
17-6017	Trap Sec.	3.58	10K	5/16″ hole	.90
17-1026	Sound Trap	4.5	56 μμf	Clip	.96

HIGH VOLTAGE OSCILLATOR COILS (FIG. OC)

Meissner No.	Use	Mtg.	Net Each
19-3204	10 KV at 50 μa with recommended circuit, 8 KV at 400 μa	1¼″	$5.10
19-3210	30 KV at 50 μa with recommended circuit	1½″	8.10

ADJUSTABLE VIDEO PEAKING COILS (FIG. MF)

These Miniature Variable Inductance Coils permit exact frequency adjustment in Video Amplifier Stages.

Meissner No.	Minimum Inductance	Maximum Inductance	Mtg.	Dimensions		Net Each
				H.	D.	
19-1920	65 μh	115 μh	Leads	1″	½″	$0.72
19-1921	115 μh	195 μh	Leads	1″	½″	.72
19-1922	195 μh	325 μh	Leads	1″	½″	.72
19-1923	325 μh	500 μh	Leads	1″	½″	.72

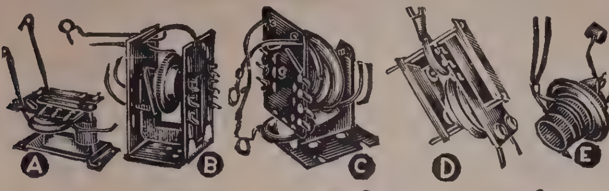
HORIZONTAL SYNC TRANSFORMERS AND COILS

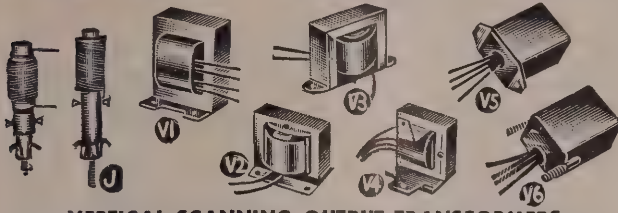
For horizontal sweep oscillator and automatic frequency control circuits.

Meissner No.	Use	Mounting	Net Each
†20-1400	Horizontal OSC and AFC discriminator (Sync. Lock)	1⅜″	$1.68
†20-1401	Horizontal OSC and Sync. control (Sync. Guide)	1⅜″	1.35
†20-1402	Horizontal OSC and Sync. stabilizer (Sync. freq. and phase)	1⅜″	1.65
#19-1575	14-28 MH horiz. OSC ringing coil	¼″ hole	1.35
‡19-1576	10-50 MH horiz. OSC ringing coil	7/16″ hole	1.35
‡19-1577	90-160 MH horiz. OSC coil	7/16″ hole	1.35

†Fig. 5U. #Fig. PS. ‡Fig. 1F.

Ram TV Components





VERTICAL SCANNING OUTPUT TRANSFORMERS

Ram No.	Turns, Pri/Sec	Primary Imp., Ohms	Mtg. Type	Dimensions H x W x D	Net Each
V301	10:1	19M @ 13maDC	V1	$3\frac{1}{16}$x2½x2½	$4.05
V302	8:1	19M @ 13maDC	V2	$2\frac{9}{16}$x2⅞x2¼	3.00
V303	10:1	19M @ 13maDC	V1	$3\frac{1}{16}$x2½x2½	3.45
V304	10:1	18M @ 10maDC	V1	$3\frac{1}{16}$x2½x2¼	3.60
V305	10:1	14M @ 15maDC	V3	2¼x$3\frac{9}{16}$x$1\frac{3}{16}$	2.70
V306	44.6:1	11¼M @ 15maDC	V1	$3\frac{1}{16}$x2½x2⅜	4.05
V307	9:1	11M @ 19maDC	V3	2¼x2¾x3¼	3.90
V308	11:1	15M @ 18maDC	V3	2x3¼x1¼	2.55
V309	10:1	13M @ 22maDC	V3	2x3¼x2	2.85
V310	10:1	18M @ 15maDC	V3	2½x4x2¼	3.60
V311	10:1	18M @ 10maDC	V1	$3\frac{1}{16}$x2½x2⅛	3.00
V312	18:1	27.5M @ 10maDC	V3	2¼x3¾x3¼	3.60
V313	11.4:1	17M @ 20maDC	V3	2x3¼x1⅝	2.55

WIDTH AND LINEARITY COILS—MTG. J

Ram No.	Description	Millihenries	Ohms	Net Each
201R1A	Width	0.07— 0.5	0.7	$0.75
201R3A	Linearity	5.0 —35	39.5	.75
201R4	Width	0.18— 1.5	1.2	.75
201R5A†	Tapped Linearity	0.5 — 4.8	7.5	.75
201R10	Width-Linearity	3.2 —28.2	21.5	1.05
201R11	Width with AGC	PRI. 0.18— 1.4	1.2	
		SEC. 4.5 —16.0	48.0	1.05
201R12†	Tapped Linearity	1.2 — 8.0	5.6	.75
201R13A	Width	0.44— 3.1	2.3	.75
201R14	Width with AGC	PRI. 2.6 — 5.5	24.0	
		SEC. 5.0 —22.0	36.5	1.35
201R15	Width	2.0 —14.0	11.0	1.05
201R16	Width	2.8 —18.8	12.3	1.05
201R17	Width with AGC	0.17— 1.8	2.5	
		8.0 — 5.0	22.0	1.35
201R19	Width	2.8 (0.15 CAP.)	16.0	1.35

†Tapped Coil.

VERTICAL BLOCKING OSCILLATOR TRANSFORMERS

Ram No.	Turns, Pri/Sec	Mtg. Type	Mtg. Center	Dimensions H x W x D	Shpg. Wt.	Net Each
V401	1:4.2	V5	$1\frac{15}{16}$	2⅛x2¼x$1\frac{17}{32}$	1 lb.	$2.10
V402	1:4.2	V6	$1\frac{7}{32}$	$1\frac{25}{32}$x$1\frac{5}{32}$x$1\frac{5}{32}$	½ lb.	2.55
V403	1.4	V5	2	$1\frac{21}{32}$x2⅜x$1\frac{13}{32}$	1 lb.	2.10
V404	1:1.5	V3	2	$1\frac{11}{32}$x2⅜x1⅜	½ lb.	1.80
V405	1:4.2	V3	1¾	1⅛x$2\frac{1}{16}$x1⅜	½ lb.	1.80

DEFLECTION YOKES—MTG. H

Ram No.	Inductance, Mh.		DC Resistance, Ohms		Net Each
	Horizontal	Vertical	Horizontal	Vertical	
Y70F08	8.3	50	9.5	60.0	6.30
Y70F08/43	8.3	43	9.5	48.0	6.60
Y70F10	10.0	50	10.0	60.0	6.60
Y70F10/43	10.0	43	10.0	48.0	6.60
Y70F12	12.0	50	16.0	52.0	6.60
Y40F14	14.0	50	14.5	60.0	6.60
Y70F14/43	14.0	43	14.5	48.0	6.60
Y70F14/3	14.0	3.0	23.0	3.3	6.60
Y70F17	17.0	50	20.0	60.0	6.60
Y70F18/43	18.0	43.0	21.0	48.0	6.60
Y70F20/43	20.0	43	22.0	48.0	6.60
Y70F25	25.0	50	27.0	60.0	6.60
Y70F25/3	25.0	3.3	27.0	4.0	6.60
Y70F30	30.0	50	35.0	60.0	6.60
Y70F30/3	30.0	3.3	35.0	4.0	6.60
" Plug	30.0	3.3	35.0	4.0	6.60

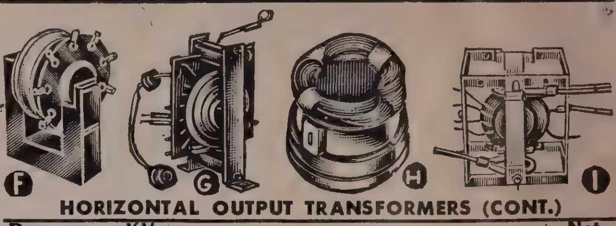
MATCHED COMPONENT KITS

Each kit consists of Matched Horizontal Output Transformer, Deflection Yoke, Linearity Control and Width Control. Kit is complete with all instructions. For large tube conversion.

Ram No.	Max. CRT	Type of Circuit	Trans.	Yoke	Lin. & W. Controls	Net Each
32K21	21″	RCA "630"	X032	Y70F08	201R3, 201R1	$11.88
45K19	19″	G.E.	X045	Y70F10	201R10 (two)	11.88
45K24	24″	G.E.	X045	Y70F08	201R10 (two)	11.88
66K24	24″	RCA, Philco	X066	Y70F08	201R3, 201R1	11.88
69K24	24″	Auto-Xfrmr.	X069	Y70F14	201R10 (two)	12.75

HORIZONTAL OUTPUT TRANSFORMERS

Ram No.	Mtg	KV Out.	Direct Replacement and Description	Net Each
X032	A	13.0	Hi-efficiency for 630 circuits	$6.60
X035	A	14.5	Similar to X032—higher voltage	6.60
X036	A	10.5	RCA 211T1, T3	6.00
X045	B	14.0	GE 77J1 and GE circuits	6.30



HORIZONTAL OUTPUT TRANSFORMERS (CONT.)

Ram No.	Mtg	KV Out.	Direct Replacement and Description	Net Each
X047	C	13.0	Dewald, Jackson, Sentinel	6.60
X048	C	12.0	Dumont 20005021	6.90
X049	C	13.0	Fada, Sparton	6.90
X050	A,C	13.0	Philharmonic, Airline, Silvertone	6.60
X051	B	16.0	Majestic C9, 253, D9-259; GE RTO-101, RTO-104, 109, 114	6.60
X053	A	15.0	Regal 140-126; Jewel 91T5A	6.90
X054	A	13.0	CBS, Silvertone A10126	6.90
X064	C	14.0	Emerson 730856, 60, 64; Hallicrafter	6.60
X065	C	16.0	Emerson 738067, 68, 69, 73, 74	6.60
X066	A	14.0	Airline, Silvertone, CBS, Olym.	6.30
X068	E	10.0	RCA, Magnavox, Emerson, Packard, Bell	3.90
X069	B	16.0	Stromberg 161042, Olym.	6.90
X070	D	13.0	Zenith	6.30
X071	G	14.5	Admiral 79C30-1, 3	6.60
X072	G	13.0	Admiral 79C30-2, -4	6.60
X073	D	11.0	Zenith, also see X116	6.30
X074	C	16.0	RCA 225T1; Hallicrafter, Silvertone, Arvin, Hoffman, Dumont; Packard Bell	6.00
X075	A	14.0	CBS 10136, Firestone, Silvertone	6.30
X076	A	16.0	Muntz TO-0031	6.00
X077	A	13.0	Voltage Doubler RCA 211T5	6.60
X078	F	13.0	TravLer TVX 104, 106	5.40
X079	F	13.0	TravLer TVX 107,108,109,110-114,130	5.40
X080	C	16.0	Hoff. 5035, 5049, 5155, 5160; RCA 76795	6.90
X081	C	14.0	Westinghouse V9904-1	6.90
X082	C	15.0	Westinghouse V10 214-1	6.90
X083	F	13.5	Sylvania 241-0003	5.40
X084	F	13.0	Sylvania 241-0005, 6	5.40
X085	F	13.0	Sylvania 241-0007	5.40
X086	I	13.0	Philco 32-8428-2	9.00
X087	I	13.0	Philco 32-8453-3	9.00
X088	I	13.0	Philco 32-8509, 8465-2, 8484-2	9.00
X089	I	13.0	Philco 32-8509-2	9.00
X090	F	13.0	Philco 32-8534, 8533	6.90
X091	F	15.0	Philco 32-8555	6.90
X092	F	14.0	Philco 32-8565	6.90
X093	C	20.0	Magnavox 360552, 360577	6.90
X094	C	19.0	RCA 235T1, CBS PC-10155, Strom. 161045, Packard Bell, Silvertone	6.90
X096	A	12.0	Magnavox 320061, -1, -3	6.90
X097	C	18.0	Magnavox 360561	6.90
X098	C	17.0	Magnavox 360580	6.90
X099	....	15.0	Farnsworth 850220, 850285	6.90
X100	F	16.5	Philco 32-8572	6.90
X102	....	17.5	Admiral 79D41-1.2	6.90
X103	....	10.0	Motorola 24C790184, 24K791974	6.90
X104	....	14.0	Motorola24C701134,710636,792596,D	6.90
X105	....	16.0	Motorola 24C701552, 711652, 701636	6.90
X106	....	16.5	Motorola 24C711265, A; 721290; 730689;24K702975,711266,711937, 712193, 720615, 721301, C, 721517, C, 722126, 722700, 730690, 91, 92, 902, 3, 4	7.95
X107	A	11.0	Airline, Raytheon, Coronado, Trans-Vue, Truteone 12M-17967, 12M-18285, 12M-1826	6.90
X108	G	11.0	Airline, Raytheon, Coronado, Truetone, 12M-18530, 12M-18689, -1, -2, 201-18562, -1	6.90
X109	B	10.5-13.5	Airline, Raytheon, Coronado, Trans-Vue, Truetone 201-19817, -1, -2, -3, 201-19533-1, 12M-19407, -1, -2, 12M-19408, 12M-19190	9.00
X110	B	16.5 18.0	Airline, Raytheon, Truetone 201-19874, 201-19999-1, 201-21270, -1; Wells Gardner 53X326, 53X328, 53X329, 53X330; Sentinel 22E80; Sparton PC70015	9.00
X111	B	12.5	Airline, Raytheon, Truetone 201-21025, -1	7.95
X112	B	15.0	Raytheon 201-22396, -1	7.95
X114	A	18.0	Muntz TO-0036, -1	6.60
X115	....	8.0 10.0	Crosley AC146756, 147552, 148161, 149146	6.90
X116	D	14.0	Zenith S18567, 18990, 19032, 19728	6.90
X117	....	11.0-13.0	Crosley AD148258, 149567, 149661, 151195, 151802, 153619	7.50
X118	....	13.0	Crosley 154069-1, 154990-1, -2, -3, -4, 155514-1, 156330-1, Hallicrafter, Hoffman	7.50
X119	C	12.0	Hallicrafter, Silvertone, Truetone 55C133, 55C143, 55C144	7.20
X120	....	11.5	Hallicrafter, Silvertone55C154,55C155	7.20
X122	....	12–14	Hoffman 5144, 5145, 5146, 5147, 5148, 5149, 5155	6.00
X123	....	12–13	Crosley AD-157820, AD-158481; Hallicrafter 55D251, 55D253, 55D266, 55D270; Sentinel 20E995	5.10
X124	....	10–12	RCA 75519, 75585, 765154, 76381	3.75
X125	....	16.4	RCA 76501	3.75

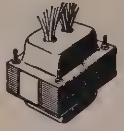
TV Transformers by Stancor

POWER TRANSFORMERS

All Primaries for 117 volt, 60 cycle operation. **All plate windings center tapped.**

Stancor No.	Plate V.	Plate Ma.	Rec.Fil. V.	Rec.Fil. A.	Other Fil. Volts	Other Fil. A.	Mounting HxWxD	Net Each
P-5059*	675	200	5.0†	3.0	6.3CT	5.0	**C**/4⅜x4¾x4	**$10.14**
P-6315	740	275	5.0†	3.0	6.3CT	7.0	**M**/4¼x3¾x4½	**11.70**
P-8154	750	205	5.0	3.0	5.0 6.3	2.0 5.6	**M**/4¼x3¾x4½	**11.10**
P-8155	450	90	5.0	2.0	6.3	5.15	**M**/3¾x2$^{13}/_{16}$x3⅜	**6.66**
P-8156	730	295	5.0	6.0	5.0 12.6CT	2.0 5.0	**M‡**/6⅝x3$^{13}/_{16}$x4¾	**18.54**
P-8157	770 470	195 105	5.0 5.0	3.0 2.0	6.3 6.3 5.0	7.65 0.6 2.0	**M**/4¾x3¾x4½	**15.96**
P-8158 For use in Voltage Doubler Circuits.	117	200			6.3 6.3 6.3	4.25 4.0 2.0	**M‡**/3½x3$^{7}/_{16}$x4⅛	**9.51**
P-8159	720	250	5.0	3.0	5.0 6.3 6.3	2.0 8.0 0.6	**M‡**5$^{5}/_{16}$x3$^{13}/_{16}$x4¾	**14.94**
P-8160	716	185 65	5.0	3.0	6.45	12.0	**M**/4¼x3¾x4½	**12.87**
P-8161	770	230	5.0 5.0	3.0 2.0	6.3	9.0	**M‡**/5$^{9}/_{16}$x3$^{13}/_{16}$x4¾	**17.10**
P-8162	760	180	5.0†	3.0	6.3	9.0	**M3‡**/5½x4⅛x3$^{7}/_{16}$	**12.24**
P-8163	740	190	5.0	3.0	6.3 6.3	7.75 1.2	**M‡**/5$^{9}/_{16}$x3$^{13}/_{16}$x4¾	**15.30**
P-8164	600	225	5.0	3.0	6.3	9.0	**M‡**/4⅛x3$^{7}/_{16}$x4⅛	**12.06**
P-8165	700 440	180 70	5.0	3.0 3.0	6.3 6.3	2.0 10.0	**M‡**/4¾x3¾x4½	**17.16**
P-8166 May be used in series as 12.6v CT	680	330	5.0	6.0	6.3 6.3 6.3	2.5 5.0 5.0	**M‡**/6x3$^{13}/_{16}$x4¾	**17.73**
P-8167	560	400	5.0	6.0	6.3 6.3	4.5 8.5	**M‡**/6x3$^{13}/_{16}$x4¾	**18.12**
P-8168 May use in series as 12.6CT	440 260	330 220	5.0	3.0	6.3 6.3	6.5 6.5 6.5	**M‡**/4⅞x3¾x4½	**16.95**
P-8169 May be used in series as 12.6v CT	760	220	5.0	3.0	6.3 6.3 6.3	1.2 5.0 7.0	**M‡**/4⅝x3¾x4½	**14.19**
P-8170 May be used in series as 12.6v CT	760	220	5.0	3.0	6.3 6.3 6.3	1.2 5.0 7.0	**C**/4¾x4x4¾	**13.80**
P-8171	750	225	5.0	3.0	6.3 6.3	2.0 9.0	**M3‡**/5x3¾x4½	**14.16**
P-8172	270	200	5.0	3.0	6.3	8.5	**M**4⅜x3⅛x3¾	**12.72**
P-8331	620	240	5.0	3.0	6.3 6.3	6.4 3.0	**M‡**/4½x3¾x4½	**11.91**
P-8332	560	260	5.0	5.0	6.3 6.3 6.3	7.1 1.2 .9	**M‡**/4¾x3¾x4½	**13.17**
P-8333	590	225	5.0†	3.0	6.3 6.3	11.4 .9	**M3‡**/4¾x3¾x4½	**12.39**
P-8334	550	305	5.0	5.0	6.3 6.3	8.5 1.2	**M‡**/5⅛x3¾x4½	**14.37**
P-8335	600	325	5.0	6.0	6.3 6.3	8.8 1.5	**M‡**/5x3¾x4½	**14.37**
P-8336 For use in Voltage Doubler Circuits.	117	280			6.3 6.3 6.3	9.5 0.6 1.2	**M‡**/4¼x3¾x4½	**10.17**
P-8337	630	225	5.0	3.0	6.3	8.25	**M3**/4½x3¾x4½	**12.75**
P-8338	630	310	5.0	6.0	6.7 6.4	10.0 1.6	**M‡**/5¼x3⅞x4¾	**13.17**
P-8339	650	255	5.0	3.0	12.6CT	5.25	**C**/4⅞x3¾x5	**10.65**
P-8340	710	270	5.0	6.0	6.3 6.3 6.3	9.5 1.65 2.4	**M‡**/4¼x3¾x4½	**13.50**
P-8341	720 440	175 110	5.0 5.0	3.0 2.0	12.6CT	5.45	**C‡**/4⅞x3¾x4⅞	**12.75**
P-8342	730	260	5.0	6.0	6.3 6.3	8.85 1.2	**M‡**/5¼x3¾x4½	**13.05**
P-8343	720 440	220 110	5.0 5.0	3.2 2.0	12.8CT	5.8	**C**/4⅞x3¾x5¼	**13.02**
P-8344*	730 400	170 84	5.0 5.0	3.2 2.0	12.6	4.25	**C**/4⅞x3¾x4½	**12.39**
P-8345	700	215	5.0	3.0	6.3 6.3	9.0 1.2	**M‡**/5x3¾x4½	**12.81**
P-8346	800 660	180 180	5.0 5.0	3.0 3.0	....	....	**C**/4⅝x3¾x4¾	**15.57**
P-8347	770	230	5.0	3.0	5. 6.45 6.3	2 7.4 1.6	**M‡**/5⅜x3¾x4½	**17.97**
P-8348	730	270	5.0	6.0	6.7	4.5	**M‡**/4¾x3¾x4½	**14.34**
P-8349	720	260	5.0	6.0	5.0 6.3	2 8.85	**M‡**/5¼x3¾x4½	**16.74**
P-8350	700	270	5.0	6.0	5.0 6.3 6.6	2 1.6 7.8	**M‡**/5¼x3¾x4½	**14.37**
P-8351	720	240	5.0	6.0	6.5	9.3	**M**/4¾x3¾x4½	**14.34**
P-8352	580	240	5.0	3.0	12.6CT	5.25	**C**/4⅞x3¾x4¾	**11.91**
P-8353	530	300	5.0	6.0	12.6CT	6.0	**C3**/5¾x3¾x5¼	**15.60**
PM-8411	750	150	5.0	3.0	6.3CT	4.5	**M**/3⅞x3½x4⅛	**7.62**
PM-8412	800	200	5.0	3.0	6.3CT	5.0	**M**/3⅞x3¾x4½	**8.58**

*Primary for 117/107 volts. †Center tapped. ‡With copper shorting band to reduce external magnetic field.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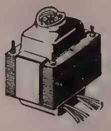
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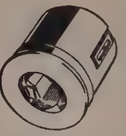
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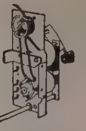
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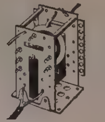
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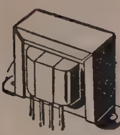
DEFLECTION YOKES

Stancor No.	Induc., Mh. Hor.	Induc., Mh. Vert.	Res., Ohms Hor.	Res., Ohms Vert.	Max. Scan	Mtg. Type	Unit Lgth.	Net Each
DY-1A	8.3	50	13.5	66	53°	DY	3″	**$4.74**
DY-2A	10.3	50	14.5	66	70°	DF	2¾″	**6.00**
DY-8A	8.5	50	14.5	52.5	70°	DF	2¾″	**6.00**
DY-9A	13.5	50	17.5	53.5	70°	DF	2¾″	**6.00**
DY-10A	30.0	3.5	45	3.5	70°	DY	2¾″	**6.00**
DY-11A	20.0	50	23	50	70°	DF	2¾″	**6.00**
DY-12A	30.0	50	34	50	70°	DF	2¾″	**6.00**
DY-13A	12.0	48	15	52	90°	DY	3″	**7.50**
DY-14A	30.0	3.5	45	3.5	70°	DY	2¾″	**6.15**
DY-15A	25.0	50.0	35	50	70°	DY	2¾″	**6.00**
DY-16A	20.0	44.0	26	45	70°	DY	3⅛″	**6.60**

EXACT REPLACEMENT FLYBACKS

No.	Exact Replacement For:	Mtg.	Net
A-8119	RCA, Arvin, Crosley, Strom., West'hse	HH	**$6.96**
A-8127	RCA, Airline, Arvin, Crosley, Hallicrafters, Motorola, Muntz, Sentinel, Silvertone, Stromberg Westinghouse	HH	**5.79**
A-8128	Admir. 79C23-3, -28-1; Airline 22E42, Sentinel, Silvertone, Strom., Dumont, Majestic	HQ	**6.54**
A-8129	Muntz TO-0024	HH	**6.39**
A-8130	Silvertone, G.E. 7751	HG	**6.00**
A-8131	Capehart, Emerson, Packard-Bell, RCA	HR	**3.90**
A-8132	Muntz TO-0031	HM	**6.30**
A-8133	Admiral 79C30-1, -3	HA	**6.30**
A-8134	Admiral 79C30-2, -4, 79C38-1, 79D38-1	HA	**6.30**
A-8135	Admiral 794D1-1, -2	HB	**6.45**
A-8136	Philharmonic 80-263, -265, -265-2; Apex, Ambassador, AMC, Brunsw., Pathe, Silvertone, etc.	HP	**6.00**
A-8137	Hoffman 5035	HC	**6.00**
A-8138	Emerson 738079/84	HC	**6.00**
A-8220	Philco 32-8565 incl. term. bd.	HD	**6.39**
A-8221	Philco 32-8555 w/cap., resist., choke	HD	**6.75**
A-8222	Philco 32-8533, -4 incl. term. bd. comp.	HD	**6.42**
A-8223	Philco 32-8572 w/choke coil on term. bd.	HC	**5.79**
A-8224	Mot. 24C711265, -71126A, -721290	HE	**7.86**
A-8225	Motorola 24K71213	HE	**7.86**
A-8226	Motorola 24K721301, -C, -721517C	HE	**7.86**
A-8227	Sylvania 241-0003	HJ	**4.32**
A-8228	Sylvania 241-0005, -0006	HJ	**4.62**
A-8229	Sylvania 241-0007	HJ	**4.86**
A-8230	Air King, CBS-Col., Silvertone	HK	**6.30**
A-8231	CBS-Col., Silvertone	HK	**6.30**
A-8232	Emerson 738067, -68, -69, -73, -74, -75, -82	HL	**6.30**
A-8233	RCA 76430, 76795	HC	**6.21**
A-8234	RCA 76501	HN	**3.78**
A-8235	RCA 75519, 75585, 76381	HN	**4.11**
A-8236	Westinghouse V11548-1, -2, -3, -4	HW	**6.75**
A-8237	Westinghouse V9904-1, V10213-1	HW	**5.85**
A-8238	Westinghouse V10214-1	HW	**5.85**
A-8239	Motorola 24K792753, 24K701009	HU	**6.00**
A-8240	Muntz TO-0036	HT	**6.00**
A-8241	Hallicrafters 55D251; Crosley 157820	HV	**4.86**
A-8242	Muntz TO-0028/29	HX	**5.40**
A-8243	RCA 77833	HN	**3.78**
A-8244	RCA 78201, 78810	HS	**6.00**
A-8245	Sentinel, Airline 22E57	HY	**6.00**
A-8246	Sentinel, Airline 22E67	HY	**6.00**
A-8247	Sentinel, Airline 22E75	HY	**7.35**
A-8248	Crosley 154069/-1, 154992/2/3, Hallic.	HE-1	**7.35**
A-8249	Dumont 20005021	HL	**5.40**
A-8250	Dumont 20004361	HH	**5.40**
A-8251	Dumont 20006731	HC	**5.85**
A-8253	Admiral 79D48-1	HD-1	**5.85**
A-8254	Admiral 79C60-1	HA-1	**4.11**
A-8255	Admiral 79C60-2/-3	HG-1	**4.86**
A-8256	GE RTO-101	HG-1	**6.00**
A-8257	GE TRO-104	HG-1	**6.00**
A-8258	GE TRO-125/6/7	HG-2	**5.55**
A-8259	GE RTO-129/30	HG-2	**5.40**
A-8260	GE RTO-109	HG-1	**6.15**
A-8261	Majestic, Muntz C9.253/-1/-2/-E	HG-1	**5.55**
A-8262	GE RTO-131/-141/-163-3	HL-1	**5.85**
A-8264	Wells Gardner 53X326, 53X328, -329, -330	......	**5.70**
A-8265	Wells Gardner 53X337, Andrea ST-3051, ST-3056, Conrac, Emerson 738060, Hallic. 55C180, 55D180, Firestone 53X337	......	**5.70**
A-8267	Zenith S-15911/12, -16566, -17130/140/233/245/435/265/646/767/811/927, -18930, -20908	......	
A-8268	Zenith S-15015/202, S-15709/10, -16006/191/204/S17244/669/X, -20866	......	**5.61** **5.61**
A-8269	Zenith S-18487/537/802	......	**5.40**
A-8270	Zenith S-18567, -18990, -19728	......	**5.40**
A-8271	Zenith S-19032	......	**5.40**
A-8272	Zenith S-20993	......	**5.40**

TV Transformers by Stancor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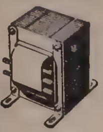
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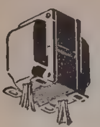
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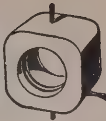
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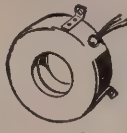
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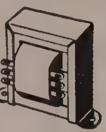
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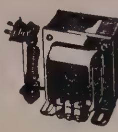
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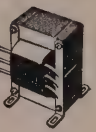
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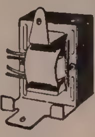
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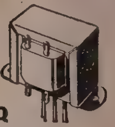
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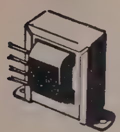
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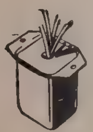
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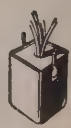
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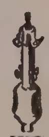
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HORIZONTAL BLOCKING OSCILLATOR TRANSFORMERS

Stancor No.	Turns Ratio Pri./Sec.	Dimensions H x W x D	Mtg. Type	Shpg. Wt.	Net Each
A-8110	2:1	1½ x 1½ x 2½	A	0.4 lbs.	$1.83
A-8120	2:1	1¾ x 1½ x 2 5/16	TD	0.4 lbs.	2.58

TV BOOSTER TRANSFORMERS

Stancor No. P-8181—Plate supply: 150 volts AC, half wave; 25 ma. DC. Filament: 6.3 volts, 0.5 amps. Height: 2″. Base Area: 2 7/16″ x 1¾″. Mtg. Ctrs.: 2″. Mounting Type: VE. Shipping Weight, 0.8 lbs. Net Each.................... $2.61

WIDTH AND LINEARITY CONTROLS—MTG. WC

Stancor No.	Application	Inductance, Mh.	Ohms	Shpg. Lbs.	Net Each
WC-1	Width Coil	.050-.50	0.53	0.3	$0.75
WC-2	Tapped Linearity Coil	.55-4.6	8.3	0.3	.75
WC-4	Width Coil	.170-.610	1.0	0.3	.72
WC-5	Width Coil and/or Linearity Coil	4-39	32	0.3	1.26
WC-6	Tapped Linearity Coil	1.3-4.1	5.6	0.3	.78
WC-7	Width Coil	.5-3.5	2.3	0.3	.75
WC-8	Width Coil	1.0-10.0	8.0	0.3	.90
WC-9	Width Coil with keyed winding	3.2-9	28.0	0.3	.96
WC-10	Width Coil with AGC	4.0-28	32.0	0.3	1.05

VERTICAL DEFLECTION OUTPUT TRANSFORMERS

Stancor No.	Turns Ratio Pri./Sec.	Primary Ohms Impedance	Overall Dim., Inches	Mtg.	Net Each
A-8112	10:1	18000@12DCMa	2 x1¾x3¼	A	$2.61
A-8113	8.8:1	16500@10DCMa	2 x1¾x3¼	A	2.67
A-8115	10:1	19000@15DCMa	3 1/16x2½x2½	N	3.96
A-8116	10:1	18000@10DCMa	3 1/16x2¼x2½	N	3.63
A-8123*	11.4:1	17000@20DCMa	2 x1¾x3¼	A	2.43
A-8140	44:1	11000@20DCMa	3 1/16x2½x2½	N	4.11
A-8141*	18:1	30000@10DCMa	2¼x3¾x2⅛	A	3.51
A-8142	8:1	19000@13DCMa	2⅝x2¼x3	N	3.06
A-8143	10:1	14000@15DCMa	2¼x2¼x3⅝	A	2.61
A-8144	9:1	9500@30DCMa	2¼x1¾x3⅝	A	2.31
A-8145	9:1	11000@19DCMa	2⅝x2¼x2½	N1	3.45
A-8146*	6.9:1	6000@15DCMa 4700@50DCMa	2 x1⅞x3¼	A	2.40
A-8147*	6:1	3200@40DCMa	2 x1¾x3¼	A	2.10
A-8148*	8:1	6000@15DCMa 4700@50DCMa	2 x1⅞x3¼	A	2.55
A-8149*	6.9:1	11500@20DCMa	2 x1⅝x3¼	A	2.19

*Autoformer type.

VERTICAL BLOCKING-OSCILLATOR TRANSFORMERS

Stancor No.	Turns Ratio Pri./Sec.	Ht., In.	Base Area	Mtg. Ctrs.	Mtg. Type	Shpg. Wt.	Net Each
A-8111	1:4.2	1½	1½x2½	2	A	0.4	$1.62
A-8121	1:4.2	1¾	1½x2 5/16	1 15/16	TD	0.4	2.22
A-8122	1:4.2	1 9/16	1 3/16x1 3/16	1 13/16	TS	0.3	2.52
A-8124	*	1⅝	1⅝x2⅞	2⅜	A	0.7	2.49
A-8125	1:4.2	1 3/16	2 3/16x1¼	1¾	A	0.4	1.62
A-8126	1:1.5	1¾	1½x2	1¾	S	0.5	1.65

*Sec. #1 1:0.48. Sec. #2 1:1.

FILTER CHOKES

Stancor No.	Inductance, Henries, at			DC Ohms	Mtg. Type	Net Each
	Rated DC Ma.	75% Ma.	115% Ma.			
C-1001	10.5hy. 110ma	11.5	9.0	225	A	$2.67
C-1080	3.5hy. 50ma	4.0	2.8	200	A	1.29
C-1215	9.0hy. 50ma	10.5	8.0	500	A	1.23
C-1325	5.0hy. 50ma	5.8	4.2	250	A	1.38
C-1410	4.0hy. 175ma	4.7	3.5	100	C	3.78
C-1411	4.5hy. 200ma	5.5	3.8	80	C	4.29
C-1412	4.0hy. 250ma	4.5	3.5	60	C	6.27
C-1646	5.0hy. 200ma	7.0	3.7	90	C	5.40
C-1703	4.0hy. 250ma	4.5	3.5	60	B	5.46
C-1706	4.5hy. 50ma	5.5	3.5	300	A	1.11
C-1707	7.0hy. 50ma	8.5	5.0	550	A	1.17
C-1709	9.0hy. 85ma	10.5	7.5	250	A	2.04
C-1721	8.5hy. 200ma	9.5	7.5	120	N	5.19
C-1722	8.0hy. 300ma	8.5	7.0	80	N	8.61
C-2303	2.5hy. 130ma	3.0	2.1	100	A	1.86
C-2304	2.3hy. 150ma	2.6	2.0	60	A	1.92
C-2309	3.0hy. 150ma	3.6	2.5	90	A	2.31
C-2325	2.0hy. 200ma	2.5	1.5	60	A	2.31
C-2326	1.0hy. 300ma	1.5	0.6	43	A	2.61
C-2327	1.5hy. 200ma	1.7	1.3	85	A	1.47
C-2328	0.8hy. 375ma	1.0	0.65	25	A	3.03
C-2334	2.8hy. 300ma	3.3	2.2	60	A	2.55

FOCUS COILS

Stancor No.	DC Ohms	Max. DC Ma.	Dimensions, In. H x W x D	Mtg. Type	Shpg. Wt.	Net Each
FC-10	247	200	3 11/32 x 3 11/32 x 1 29/64	FC	2.0	$5.13
FC-11	470	140	4¾ Diam. x 1⅛	FO	3.2	6.54
FC-12	370	165	3 11/32 x 3 11/32 x 1 29/64	FC	2.0	5.13

ISOLATION TESTING TRANSFORMER

Stancor No. P-6415—Large enough to handle almost any TV or radio receiver on test. Presents three standard receptacles, providing output voltages of 105, 115 and 125, with 117 volts AC from the line, for testing purposes. May be employed to correct a high or low line voltage. Overall Height: 5⅜″. Base Area: 4½″ x 5½″. Mounting Type KC. Shipping Weight, 17.0 lbs. Net Each.................................... $19.17

FILAMENT TRANSFORMERS

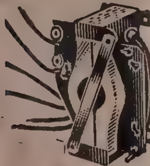
Stancor No.	Secondary		Pri. Volts	RMS V. Insul.	Overall H x W x D	Mtg. Type	Net Each
	Volts	Amps.					
P-3064	6.3CT	6.0	117	2500	3⅛x2½x2⅞	B	$3.75
P-6134	6.3CT	1.2	117	2500	1⅝x2⅞x1⅝	A	1.74
P-6308	6.3CT	10.0	117/107	2500	3½x2⅞x2¾	N	4.50
P-8190	6.3	1.2	117	5000	2 x3¼x1¾	A	2.28
P-8191	6.3	1.2	6.3	5000	2 x3¼x1¾	A	2.46

AUDIO OUTPUT TRANSFORMERS

Stancor No.	Application	Pri. Ma.	Max. Watts	Dimensions H x W x D	Mtg. Type	Net Each
A-2313	Single plate, 7000 ohms, to 8 ohms V.C.	40	10	2 x3¼x3¾	A	$2.04
A-3303	P.P. plates, 14K ohms, to 500 15/8/4 ohms line	55	20	3 3/16x2⅝x2⅝	C	5.88
A-3330	Single plate, 2000 ohms to 3.5 ohms V.C.	50	5	1⅜x2⅜x1⅜	A	1.65
A-3332	Single plate, 2000 ohms to 3.2 ohm V.C.	50	3	1 3/16x2⅛x1	A	.96
A-3823	Single or P.P. plates, 4000-14000 ohms to Voice Coil	40	8	1⅝x2⅞x2⅜	Q	2.10
A-3824	A-3823 except 6K-10K ohms	75	8	2 x3¼x2	Q	2.97
A-3825	Single plate, 15K-45K ohms to Voice Coil	75	8	2 x3¼x1⅝	Q	2.37
A-3830	P.P. plates, 3K-10K ohms, to Voice Coil	60	20	2 11/16x3 5/16x2¼	J	3.24
A-3849	Single plate, 1.5K-10K ohms. to V.C.	55	10	1⅝x2⅞x1½	Q	2.01
A-3850	Single or P.P. plates, 4K-14K ohms, to V.C.	40	8	2 x2⅜x1½	J	2.37
A-3852	P.P. plates, 4K-14K ohms, to Voice Coil	40	18	2 5/16x2⅞x2	J	2.61
A-3856	Single or P.P. plates, 4K-14K ohms, to V.C.	35	4	1⅜x2⅜x1⅜	Q	1.95
A-3870	P.P. plates, 4K-14K ohms, to Voice Coil	50*	18	2 x3¼x2	Q	2.97
A-3876	Single Plate, 2K ohms, to 4 ohm V.C.	60	5	1⅜x2⅜x1⅜	A	1.14
A-3877	Single Plate, 5K ohms, to 4 ohm V.C.	40	5	1⅜x2⅜x1⅜	A	1.20
A-3878	Single Plate, 7K ohms, to 4 ohm V.C.	30	5	1⅜x2⅜x1⅜	A	1.17
A-3879	Single Plate, 10K ohms, to 4 ohm V.C.	30	5	1⅜x2⅜x1⅜	A	1.14
A-3880	P.P. Plates, 4K-14K ohms, to 3.2 ohm V.C.	40	15	2¼x3¾x2¼	Q	3.57
A-8114	Single Plate, 7600 ohms, to 3.2 ohm V.C.	32	5	1⅜x2⅜x1⅜	A	1.59

*50 Ma. each side.

Merit Television Components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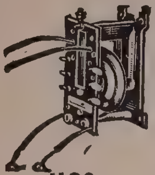
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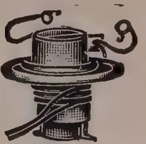
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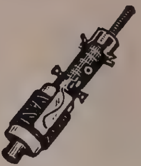
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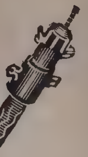
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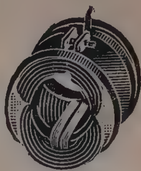
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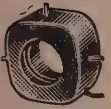
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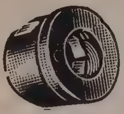
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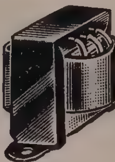
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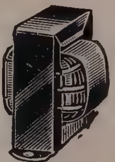
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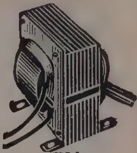
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HORIZONTAL OUTPUT AND HI-VOLTAGE TRANSFORMERS

Nos. HVO-3 and HVO-5 are mounting type HO1. Nos. HVO-7, HVO-X7 and HVO-9 are mounting type HO2. No. HVO-8 is mounting type HO3. **All other models are exact replacements.**

Merit No.	Picture Tube	Equivalent Type	Net Each
HVO-3	7BP4-19AP4	RCA 211T1-211T3	$4.80
HVO-5	16AP4	RCA 211T5	6.00
HVO-7†	10″-24″	GE 77J1 plus AGC-AFC WDG	7.20
HVO-X7†*	10″-24″	GE 77J1 plus AGC-AFC WDG	9.00
HVO-8	10″-24″	Air-core, Capehart, Emerson, Packard, Bell, RCA	3.90
HVO-9	17″-24″	RCA 230T1	6.00
HVO-10†	10″-21″	Fast retrace plus AGC-AFC WDG	6.00
HVO-11	10″-19″	Zenith underchassis S16204, S17130, S17265, S17027	5.40
HVO-12	10″-20″	Motorola 24A790184, 24C701134, 24C92596D, 24K700588, 24K701099	6.00
HVO-13	10″-21″	Sylvania 241-0003, -0005, -0006, -0007	4.95
HVO-15	10″-16″	Philco 32-8453, 32-8453-2	8.10
HVO-16	10″-16″	Philco 32-8465-2, 32-8509	8.10
HVO-17	10″-16″	Philco 32-8484-2, 32-8509-2	8.10
HVO-18	10″-16″	Philco 32-8428-1, 32-8428-2	7.50
HVO-19	16″-24″	Philco 32-8533, 32-8534	6.30
HVO-20	16″-24″	Philco 32-8555	6.75
HVO-21	16″-24″	Philco 32-8565, 32-8607, 32-8624	6.45
HVO-22	16″-24″	Admiral 79D41-1, 79D41-2	6.30
HVO-23	16″-24″	Admiral 79C30-2, 79C30-4	6.30
HVO-24	16″-24″	Admiral 79C30-1, 79C30-3	6.30
HVO-25	16″-24″	Emerson 738067, 68, 69, 73, 74, 75, 82, 83, 85, 86	6.30
HVO-26	16″-24″	Air King, CBS, Firestone, Silvertone A-10104, 07, 08, 10, 26, 35	6.30
HVO-27	16″-24″	CBS, Firestone, Silvertone A10136, 7, 59	6.30
HVO-28	16″-24″	Motorola 24C711265, 24C721290, 24K711266, 24K711937, 24K730692	7.95
HVO-29	16″-24″	Motorola 24K712193	7.95
HVO-30	16″-24″	Motorola 24K721301, 24K722126	7.95
HVO-31	16″-24″	Muntz TO-0031, -1, -2	6.30
HVO-32	24″-27″	Muntz TO-0036, -1, -2	6.60
HVO-33	16″-24″	RCA 76501, 76672	3.90
HVO-34	16″-24″	RCA 75240, 75519, 76154, 76381, 77833	4.05
HVO-35	16″-24″	RCA 76430, 76795	6.30
HVO-36	24″-27″	RCA 235T1 with AGC-AFC, Dumont, CBS, Arvin, Emerson, Pacific Mercury	6.60
HVO-37	17″-27″	Crosley "Super V" 157820-5, -1, 15848-1, Sentinel, Hallicrafters	5.10
HVO-38	17″-27″	Admiral 79C60-1, -5, -6, -7	6.00
HVO-39	16″-24″	Crosley, Hallicrafters, Motorola—**Adjustable Core**	7.34
HVO-40	16″-24″	Silvertone, Warwick T-80-320	6.00
HVO-41	16″-24″	Airline, Arlington Coronado, Firestone, Truetone 53X326, 28, 29, 30, Silvertone T80-289, -293	7.50
HVO-42	16″-24″	CBS PC-10147, G, PC-10161	6.30
HVO-43	10″-19″	Airline, Arlington, Coronado, Firestone, Truetone 53X301, 303, 307	6.30
HVO-44	16″-24″	Airline, Arlington, Coronado, Firestone, Truetone, Wells Gardner 53X319, 53X320	6.60
HVO-45	16″-24″	Westinghouse V-11548-3	6.60
HVO-46	16″-24″	Airline, Sentinel 22E57, -6, 22E61, 22E67	6.00
HVO-47	16″-24″	Hoffman 5156, Packard Bell 89438, RCA-225T1	6.00
HVO-48	16″-24″	Magnavox 320055-1, 32055G1, 32006-1	6.60
HVO-49	16″-24″	Raytheon C-201-21025-1, 201-22396-1, Airline, Truetone	7.50
HVO-50	12″-20″	Travler TV-X-105, TV-X-108	6.60
HVO-51	16″-24″	Hoffman 5146, 5148, 5149, 5155	6.60
HVO-52	12″-20″	Hallicrafters 55C133, 143, 144, Coronado, Silvertone, Truetone	6.90
HVO-54	17″-27″	Admiral 79C60-2, -3, -4	6.00

*Corona-Free Insulation. †Universal Mounting.

TV CONVERSION-REPLACEMENT KIT

Contains one each MDF-70, HVO-7, MWC-1.
Merit No. 1000—Net Each.............................. $15.15

WIDTH AND LINEARITY COILS

Merit No.	Range, mh.	Resist., Ohms	Equivalent Type	Mtg. Type	Net Each
MWC-1*	4–29, 2.5–8#†	28 29#†	None	WC1	$1.35
MWC-2	.2–4	7.15	None	WC2	.75
MWC-3	20–60	47.5	None	WC2	1.14
MWC-4†	.2–3†	7.12†	RCA201R5	WC2	.75
MWC-5†	1-5†	6.0†	RCA207R1, 209R1	WC2	.75
MWC-6	1.5–10	8.0	RCA211R1, 213R1	WC2	.75
MWC-7	.054–.245	0.53	RCA201R1	WC2	.84
MWC-8	.170–.610	1.0	RCA201R4	WC2	.84
MWC-9†	0.3–12†	9.0†	None	WC2	.84
MWC-10*	.2–2.3, 4–28#	2.5 23#	None	WC1	1.35
MWC-11	2–20	12	None	WC2	.84
MWC-12	4–29	28.3	None	WC1	.84

*Provides AGC-AFC secondary winding. †Tapped.
#AGC-AFC winding values.

DEFLECTION YOKES (MTG. MDF)

Merit No.	Tube Size	Inductance		Deflect. Angle	Net Each
		Horizontal	Vertical		
MD-12	10″-16″	8mh ± 10%	48mh ± 10%	53°	$5.40
MD-13	10″-16″	30mh ± 10%	48mh ± 10%	53°	5.40
MDF-74*†	14″-24″	28mh ± 10%	3mh ± 10%	70°	6.00
MDF-70*	14″-24″	10mh ± 10%	45mh ± 10%	70°	6.00
MDF-71*	14″-24″	30mh ± 10%	50mh ± 10%	70°	6.00
MDF-72*	14″-24″	13mh ± 10%	41mh ± 10%	70°	6.00
MDF-73*	14″-24″	19mh ± 10%	40mh ± 10%	70°	6.00
MDF-75*	14″-24″	25mh ± 10%	42mh ± 10%	70°	6.00
MDF-76*#	14″-24″	30mh ± 10%	3.6mh ± 10%	70°	6.00
MDF-91*	17″-30″	11.5mh ± 10%	42mh ± 10%	90°	7.50
MDF-92*	17″-30″	20mh ± 10%	41mh ± 10%	90°	7.50

*Cosine Ferrite Core. #Includes octal plug.

FOCUS COILS

Merit No.	DC Resist. Ohms	Tube Size	RCA	Mounting Type	Net Each
MF-1	247	10″-12″	202D1	MFC-1	$4.95
MF-2	470	16″	202D2	MFC-2	6.60
MF-3	360	10″-12″	....	MFC-1	4.95
MF-4	1000	14″-20″	....	MFC-2	6.60
MF-5	1500	14″-20″	....	MFC-2	6.60

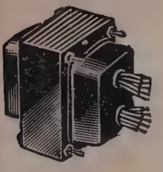
VERTICAL OUTPUT TRANSFORMERS

Merit No.	Turns Ratio	Prim. Imp. Ohms/MA	Dimensions H x W x D	Mtg. Type	Net Each
A-2820#	5:1*	6500/18	2 x3¼ x2	A	$2.40
A-2821	6:1*	4500/38	2 x3¼ x1⅞	A	2.55
A-2822†	6:1	4000/41	2¼x3 11/16x2⅛	A	3.30
A-2823†	8:1	8000/30	2¼x3 11/16x2⅛	A	3.30
A-2824#	15:1*‡	18000/11	2 x3¼ x1⅞	A	2.55
A-2825#	44:1*	16000/14	2 x3¼ x2	A	2.55
A-3035††	10:1	19000/13	3⅛x2 11/16x2½	EV	4.15
A-3036#	10:1	18000/13	2 x3¼ x2	A	2.55
A-3037#	11:4*	22000/10	2 x3¼ x1⅝	A	2.55
A-3038†	10:1	20000/13	2¼x3 11/16x2¼	A	3.60
A-3039†	18:1	29000/10	2¼x3 11/16x2⅛	A	3.30
A-3080†	25:1, 50:1	18000/25	3 x3 9/16 x2¼	B	4.20
A-3081†	30:1, 50:1*	18000/25	2¼x3 11/16x2¼	A	3.90

#2 15/16″ mtg. cntrs. †3⅛″ mtg. cntrs. ††1 19/32″ x 2″ mtg. cntrs.
*Auto transformers. ‡Incl. Vert. Blnkg. Wdg.

ASK FOR THE LATEST MERIT TV REPLACEMENT GUIDE FORM No. 407 FOR USE OF THE COMPONENTS LISTED ON THESE PAGES.

Merit Television Components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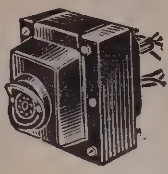
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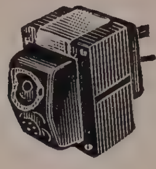
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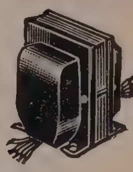
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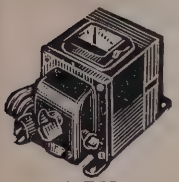
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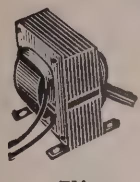
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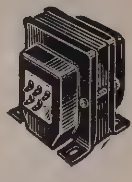
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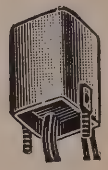
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B

POWER TRANSFORMERS

Receiver Replacement Type—Primary for 115 v., 60 cycles; leads RETMA Color-Coded; 5 v. Rectifier; 6.3 v. Fil. Wdgs.

Merit No.	H.V. Sec. Volts	H.V. Sec. Ma.	Rect. Amps.	Fil. Amps.	Dimensions H x W x D	Net Each
P-2830*	253–253	300	6	6# 6# 1.25	3¾ x4½ x4⅞	**$13.65**
P-2831*	331–331 211–211	250 90	3 2	13	3¾ x4½ x5⅜	**15.25**
P-2833*	305–305	300	6	.9 1.95 6.4# 6.4#	3¾ x4½ x5⅜	**15.90**
P-2834*	360–360	225	6	1.2 3 9	3¾ x4½ x4⅞	**15.00**
P-2835*	420–420	250	3	8 3 1.2	3¾ x4½ x5⅛	**15.00**
P-2836*	300–300	250	4	11.7 1.2	3 7/16 x4⅛ x4⅞	**13.50**
P-2837†	282–282	250	3	9.3 1.25	3¾ x4½ x5 1/16	**15.60**
P-2838†	333–333	250	3	5.8# 5.8# 3.3 .85	3¾ x4½ x5 13/16	**16.50**
P-2839**	276–276	290	6	11.5 3.6	3¾ x4½ x5 11/16	**16.50**
P-2840**	312–312	340	6	5.1# 5.1# 1.5# 1.5#	3¾ x4½ x6	**18.40**
P-2954*	375–375	150	3	5**	3⅛ x3¾ x4 5/16	**9.00**
P-3053*	375–375 325–325	170 130	3 3	7# 7# 2.7*	3¾ x4½ x5⅝	**17.00**
P-3054*	350–350 220–220	180 70	6	10 2.7	3¾ x4½ x5⅜	**13.45**
P-3055*	300–300	400	6	10 4.5	3¾ x4½ x5⅝	**15.45**
P-3059*	360–360	250	2 3.	2.7 9	3¾ x4½ x5⅛	**15.00**
P-3061	362–362	295	6 2	5***	3 13/16x4⅝ x6⅝	**18.90**
P-3063*	360–360	250	3 2	9 1.2	3 13/16x4⅝ x5½	**15.40**
P-3066**	375–375	170	3 3	5*** 2.6	3¾ x4½ x5⅜	**16.95**
P-3067*	400–400 212–212	220 90	3 3	10 2.6	3¾ x4½ x5⅜	**16.35**
P-3069†	350–350	225	3	10 2.7	3¾ x4½ x4¼	**13.50**
P-3070*	350–350	225	3	10 2.7	3¾ x4½ x4	**12.75**
P-3071†	360–360	180	3	9	3 7/16 x4⅛ x4 9/16	**13.50**
P-3072*	360–360	180	3	9	3 7/16 x4⅛ x4 5/16	**12.75**
P-3073†	322–322 205–205	180 70	3	10 2.7	3¾ x4½ x5	**16.50**
P-3076*	270–270 180–180	300 200	3	6.5# 6.5#	3¾ x4½ x5	**14.65**
P-3077	300–300	250	3	9	3¾ x4½ x4¼	**12.00**
P-3078*	360–360	275	3	9 1.5 2.7*	3¾ x4½ x4¾	**14.10**
P-3079*	140 tap 117	300	……	9 2 1	3¾ x4½ x3¾	**10.90**
P-3165‡	350–350	200	2 3	.6 7.0	4⅝ x3¾ x5	**12.90**
P-3166‡	400–400	300	3 6	10***	5⅜ x4½ x5¾	**18.90**
P-3169‡	390–390 325–325	160 130	3 3	8 4	4⅝ x3 13/16x4 13/16	**16.20**
P-3170‡	1750	2	2‡‡	.9## 2##	3⅛ x2⅝ x2⅞	**7.60**
P-3171‡	2500	5	2‡‡	3## 3##	3⅞ x3 3/16 x3⅜	**8.70**
P-3174‡	405–405 325–325	240 200	3 3	6 6	5 5/16 x4 7/16 x5⅝	**25.10**
P-3179‡	362–362 210–210	210 120	3 2	6***	4⅝ x3 13/16x4¾	**14.10**

#Can be used in series for 12.6 v. ct. ⋆Fil. v. 6.3 or 5. ***12.6 ct. ##Fil. v. 6.3 or 2.5. ‡‡Rectifier 2.5 v. ⋆⋆Fil. v. 6.3 ct. *Mtg. Type C. †Mtg. Type CS. **Mtg. Type CSS. ‡Mtg. Type D.

FILTER CHOKES (MOUNTING TYPE A)

Merit No.	Ind. H.	Ma.	DC Ohms	DC Insul.	Mtg. Ctrs.	Dimensions H x W x D	Net Each
C-2973	1.5	10	95	1500	1¾	1 3/16x1 7/16 x1	**$1.20**
C-2974	2.0	200	50	1500	2 13/16	2 x3¼ x1⅝	**2.40**
C-2993	10.5	110	220	3000	3 9/16	2 9/16x4 x2¼	**3.00**
C-2991	2	250	53	2000	3⅛	2¼x3 11/16x2⅛	**2.64**
C-2994	1.5	200	90	2000	2⅜	1⅝x2 13/16x1⅝	**1.50**
C-2995	8.0	100	375	2000	2 13/16	2 x3¼ x1⅝	**1.95**
C-2996	1.0	300	60	2000	3⅛	2¼x3 11/16x2	**2.25**

BLOCKING OSCILLATOR TRANSFORMERS

Merit No.	Type	Turns Ratio	Mtg. Centers	Dimensions	Net Each
A-3000†	Vert.	1:4.2	2	1⅜ x 2⅜ x 1¼	**$1.65**
A-3001†	Vert.	**	2⅜	1⅝ x 2 13/16x 1½	**2.50**
A-3006†	Vert.	1:3.5	1¾	1 3/16 x 2⅛ x ⅞	**2.25**
A-4000*	Vert.	1:4.2	1 15/16	1¾ x 2 5/16 x 1½	**2.00**
A-3002†	Hor.	2:1	2	1⅜ x 2⅜ x 1¼	**1.80**
A-3003†	Vert.	1:4.2	1¾	1 3/16 x 2⅛ x ⅞	**1.80**
A-3004#	Vert.	1:1.5	1¾	1¾ x 2 x 1½	**1.80**
A-4002*	Hor.	2:1	1 15/16	1¾ x 2 5/16 x 1½	**2.25**
A-4003††	Vert.	1:4.2	1 3/16	1 9/16 x 1 3/16 x 1 3/16	**2.00**

**Pri./Sec. 1, 1:208; Pri./Sec. 2, 1:1. †Mtg. Fig. A. *Mtg. Fig. J. #Mtg. B. ††Mtg. JL.

LINE VOLTAGE REGULATORS (MTG. D)

Adjust voltages of 65-75-90-100-115-130-145 v. to 115 v., 50/60 cps. Voltmeter, line cord and plug, variable switch, light, receptacle.

Merit No.	Watts	Dimensions, H x W x D	Net Each
P-3138	350	4⅞ x 3 13/16x 7½	**$17.25**
P-3139	750	5⅞ x 4½ x 9½	**27.00**

FILAMENT TRANSFORMERS

Merit No.	Sec. Volts	Amps.	Insul. Volts	Dimensions H x W x D	Mtg. Type	Net Each
P-2941	5 C.T.	6	2500	2¼ x3 11/16x1⅞	A	**$ 3.25**
P-2942	5 C.T.	15	10000	4½ x3¾ x3½	EV	**7.35**
P-2943	5 C.T.	30	2500	3 13/16x3⅛ x3⅞	DL	**10.50**
P-2944	6.3 C.T.	1	2500	1⅝ x2 13/16x1½	A	**2.10**
P-2945	6.3 C.T.	2	2500	2 x3¼ x1⅝	A	**2.35**
P-2946	6.3 C.T.	3	2500	3 x3¼ x1⅞	A	**2.70**
P-2947	6.3 C.T.	6	2500	3 x3⅝ x2¼	B	**3.45**
P-2948	6.3 C.T.	10	2500	3 7/16 x2 13/16x2⅞	EV	**5.10**
P-2961	6.3 C.T. 6.3 C.T.	3 3	2500	3 x3⅝ x2¼	B	**4.30**
P-3040	5 C.T.	3	2500	2 x3¼ x2⅛	A	**2.70**
P-3041	5 C.T. 6.3 C.T.	3 3.6	2500	2½ x4 x2⅛	A	**4.30**
P-3043	5 6.3	3 3.5	3000	3⅛ x3¾ x4 1/16	C	**8.10**
P-3074	6.3	1.2	5000	2 x3¼ x2	A	**2.65**

TV AUTOTRANSFORMER

Provides TV picture tube booster voltage.

P-3098—Input Volts 6.3. Output Volts 12.6, taps at 9.45-6.3. 1 amp. Mtg. Ctrs. 2⅜". Dimen. 1⅝x2 13/16x1¼". Mtg. A Net **$1.75**

HORIZONTAL SCAN CHOKE (MTG. B)

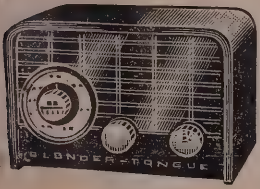
Exact replacement for Sylvania 241-0002. 1 23/32" mounting centers. 1 11/16" high, 2" wide, 1¾" deep.
Merit No. C-2980—Net Each........................ **$2.10**

TV ISOLATION FILAMENT TRANSFORMER (MTG.A)

Merit No. P-3097—Isolates damper tube. Primary, 6.3 v. Sec., 12.6 v., 1 amp. or 6.3 v., 1.2 amp. Net Each....... **$2.65**

B-T LABS

Blonder-Tongue Equipment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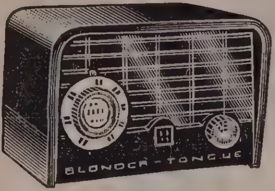
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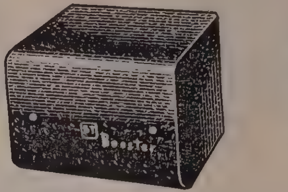
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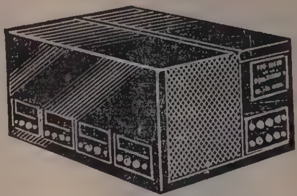

MA4-1

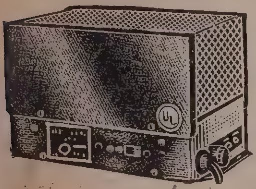
UHF Ultraverter Model BTU-2—Includes Ultratuner, most sensitive and compact tuner in the field; double-tuned, interference free UHF input AND fully shielded, no-drift oscillator section. Smoothest, fastest and most accurate tuning—dual speed channel selection. Exact 300 ohm impedance match at both UHF input and VHF output, plus unbeatable triode amplification—maximum usable signal power with no picture or sound distortion. Completely automatic "On-Off" operation with TV set. Handsome plastic cabinet styling to blend perfectly with any TV set. Weight, 4½ lbs. Net Each.................. $28.00

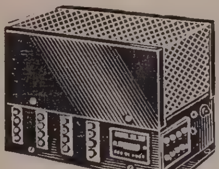
UHF Converter Model "99"—For Class A signal areas. Exact 300 ohm (input and output) impedance match; synchro-sharp input and oscillator tuning, for every UHF channel, eliminates multiple images and troublesome interference. Oscillator circuit thermally compensated for utmost frequency stability. Direct drive channel selector is smooth and precise, with a choice of either Channel 4, 5 or 6 as the IF output to the TV set. Covers entire UHF range without VHF channel switching. Weight, 4 lbs. Net Each.................. $14.95

Model HA-3 Booster—Powerful, fully automatic, broadband. Features 3-stage push-pull cascade circuit. Boosts signal greater than 16 db on all 12 TV channels. No knobs, no tuning, no channel switching. Plug set into booster and booster into wall outlets. Switches on and off with set. Rear gain control switch permits attenuation of excessively strong signals. 3-6J6's. Matches 300-ohm line. 105-120 volts, AC. Size: 5″ x 5¾″ x 4″. Shipping Weight, 4 lbs. Net Each.................. $28.20

Mixer Amplifier Model MA4-1—Low cost answer to all VHF and UHF multi-antenna problems. Amplifies all TV signals into any 75 ohm, 300 ohm or open wire transmission line. Eliminates need for antenna rotors, separate boosters, etc. Mixes and feeds signals of 5 antennas to 1 TV receiver or distribution system. One input is broadband for signals requiring no pre-amplification, and the remaining 4 accommodate separate plug-in strip assemblies. Several units may be ganged to serve any number of antennas. **Impedance:** 75 and 300 ohms at all terminals. **Plug-in strips:** Channel Strips **CS-1**—Single channel, highly selective amplifier. One for each channel. Gain exceeds 17 db. **Tubes:** 6AB4, 6CB6. UHF Converter Strip **UC-1**—Lowers UHF signals to existing TV frequencies. **Installations:** Ordinary screw-terminals. Hammertone grey metal cabinet, 4″ x 6″ x 8¾″.

Model MA4-1—Basic chassis. Contains power supply and signal mixing circuits. Net Each.................. $38.50


CA-1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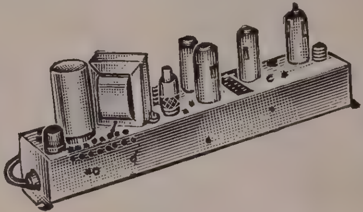
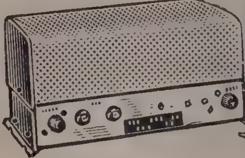
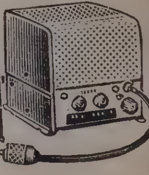

MUC, MVC


MLA


MAGC

TV Commercial Antensifier Model CA-1—Amplifies VHF 27 db on all channels with gain control. Excellent line match, uniform response, quality components, dual-triodes throughout. 300-75 ohm transformers for superior match. Use with DA8-1 in any any combination to provide from 2 to 2000 outlets. 8″ x 4½″ x 5″. Weight, 5 lbs. Net Each.................. $47.70

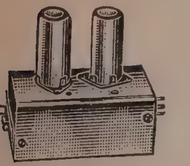
Distribution Amplifier Model DA8-1—For 75 and 300 ohm lines, 8-outlet, fully isolated (35 db between each). Variable gain control. Automatic all-channel transmission. No signal loss. ONE antenna. Line output, 75-ohm only. 117 v., 60 cps. 30 watts. TUBES: 3-6J6; 1-6BC5. Shockproof metal cabinet. Net Each.................. $53.70

Broadband VHF Amplifier Model MLA—For antennas and coax lines. Provides 37 db gain (70X) and 1.25 volts RMS output each band. HI-LO controls. Response flat ± ½ db over any 6 mc channel, ± 2 db over either HI or LO band. Constant RF output for AC line variation of up to ± 10%. 9″ x 6″ x 5″ gray hammertone cabinet. Slotted base feet. Shipping Weight, 9 lbs. 55 watts, 110-120 V.A.C. Net Each.................. $74.40

Automatic Gain Control for MLA Model MAGC—Control range of 20 db MLA input variation. Output flat ± 1½ db. Input cable with male fitting and female plug. Plugs into power receptacle on MLA chassis, draws 10 watts. 6″ x 4″ x 5″ gray hammertone cabinet with slotted base feet. Shipping Weight, 6 lbs. Net Each.................. $42.60

VHF Channel Converter Model MVC—Changes one HI channel to one LO channel. Crystal controlled. Over 20 db (10X) gain. Self powered. 75 ohm fittings. Net Each.................. $150.00

UHF Converter-Amplifier Model MUC—Changes one UHF channel to one VHF channel. Crystal controlled. Over 15 db (6X) gain. Self powered. 75 ohm fitting and 300 ohm input terminal. Net Each.................. $150.00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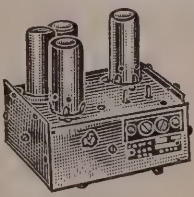
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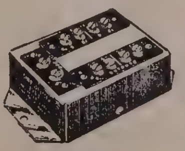
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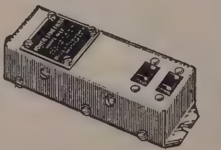
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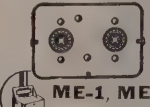
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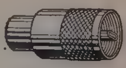
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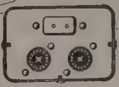
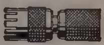

MDX-75


MK-59

VHF Channel Strip Model CS-1—Single channel amplifier for MA4-1. 17 db (over 7 times) gain. Highly selective, low noise circuits. 75 or 300 ohm input. Specify VHF channel. Weight, ¾ lb. Net Each.................. $16.20

UHF Converter Strip Model UC-1—Single channel UHF converter for MA4-1. 16 db (over 7 times) gain on any fixed VHF channel. 300 ohm input. Specify both UHF and VHF channels. Weight, 1½ lbs. Net Each.................. $54.00

Line Splitters (Couplers)

Model LS4-1—Four 75 ohm lines from one 75 ohm line
Model LS4-2—Four 75 ohm lines from one 300 ohm line.
Model LS4-3—Four 300 ohm lines from one 75 ohm line.
Model LS4-4—Four 300 ohm lines from one 300 ohm line.
Weight, ½ lb.
Any one of above four models—Net Each.................. $5.70

Duplexer Model MDX—One line for VHF plus AC, AM (0-2mc). Weatherproof.
Model MDX-75—With 75-ohm fittings. Net Each...... $7.50
Model MDX-300—With 300-ohm fittings. Net Each.................. $6.75

Power Line Filter Model MLF—Isolates RF from AC. Mounts in MRH Housing. Net Each.................. $10.00

Tunable FM Trap Model MWT-1—Weatherproof. Coaxial fittings. Net Each.................. $13.80

All-Channel VHF Equalizer Model ME-1—Overcomes differential loss in 1000′ RG-11/U. Weatherproof. Coaxial fittings. Net Each.................. $9.30

Low Channel VHF Equalizer Model ME-2—Overcomes differential loss in 2000′ RG-11/U. Weatherproof. Coaxial fittings. Net Each.................. $9.00

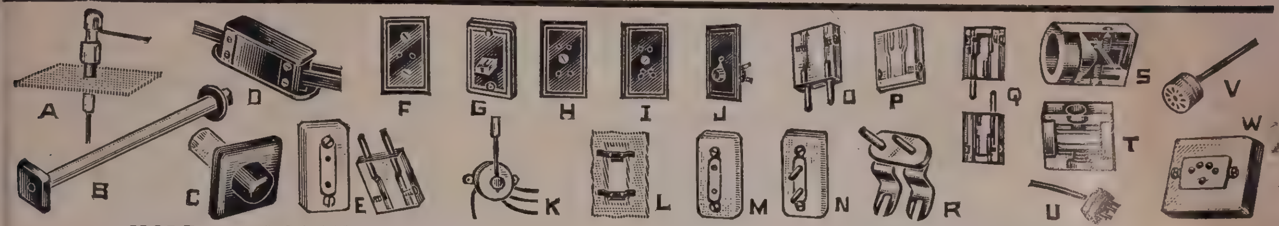
TV Cable Tapoffs Model MTO—Weatherproof spliceless tap.
Model MTO-11—Tap from RG-11/U. With tapoff tool and RG-59/U outlet, fitting. Net Each.................. $4.50
Model MTO-59—From RG-11/U or RG-59/U. With tapoff tool and mounting plate. Net Each.................. $4.50

Outdoor Enclosure Model MRH—Radiation and weatherproof, for all Masterline units. Locking door. With mounting brackets. Net Each.................. $29.70

Resistor Outlet Box Model R01-B—75 or 300 ohm TV tapoff from 75 ohm line. Passes VHF and UHF with 17 db isolation. Only ½ db insertion loss. Weight, ½ lb. Net Each.................. $3.00

Exact-Match Cable Connectors— 69c
Model MP-11—RG-11/U Male Fitting. Net Each.......
Model MP-59—RG-59/U Male Fitting. Net Each........ 78c
Model MTP-75—Terminating plug. 75-ohm termination for RG-11/U of RG-59/U. Net Each.................. $1.50
Model MK-59A—Miniature RG-59/U male fitting. Ea... .78

Mosley TV Antenna Accessories



MODEL 623 ROOF-THRU (FIG. A)

Low-loss polystyrene feed-thru bushing combined with an 8″ x 9″ copper flashing provides direct weather-proof roof entrance for TV lead-in or rotator control cable. For tubular or oval lines. No roof cement needed. Net Each............... $3.50

Model 623-PK—Above, with one F-1 Single Flush Socket, mounting hardware and mating Transmission Line Plug. Net..$4.71

Model 624—Roof-Thru for flat line. Net Each.......... 3.50

Model 624-PK—Same as 623-PK except with 624 unit. Net 4.71

MODEL 625 WALL-THRU (FIG. B)

Installs easily and quickly in any wall up to 13″ thick to provide neat, low loss weather-proof wall entrance for TV lead-in or rotator control cable. Use with any tubular, oval or flat lines. Available in brown or ivory. Net Each............ $1.17

Model 625-PK—Same as above with 343 and plug. Net..$1.80

MODEL 626 WALL-FEED (FIG. C)

Provides weather-proof entrance into attic where line can be dropped inside of wall and terminated at a Mosley Flush Socket. Molded polystyrene plate with weather hood and 2″ polystyrene tube adjustable to thickness of most wall sheathing and siding. May be cut flush with inside surface. Net Each.... 76c

Model 626-PK—Above with one 343 TV Lead-In Socket and mating Transmission Line Plug. Net Each............$1.39

MODEL 902 DUAL MATCH TWO-SET COUPLER (FIG. D)

Minimizes set interaction and radiation. Housed in sturdy polystyrene case. Easy to install outside building in semi-protected area. Solderless. With mounting screws. Net Each. $2.37

MODEL 912 "TINY-MITE" (FIG. E)

Multiple TV set coupler and convenient plug-in socket combined in one compact, quickly installed unit. Acts as effective isolating tap-off. Will operate two TV sets from one antenna and, under suitable conditions, several couplers may be utilized to operate up to 4 or 5 sets. Available in brown or ivory, supplied with solderless plug and wood screws. May be installed on inside plate of Model 625 wall-thru. Net Each...................... $1.05

FLUSH-MOUNTED TV LEAD-IN SOCKETS (FIG. F)

Model F-1 Single Flush Socket—For single 300 ohm TV or FM lead-in. With mounting machine screws. In brown or ivory. Net Each $1.00

Model F-1PK—Above, with mating Solderless Transmission Line Plug, F-9 mounting brackets and matching screws. Net..$1.17

Model F-2 Wall Plate Socket—Similar in appearance to F-1 but intended for use where line cannot be concealed in wall. No wall opening needed. Brown or ivory. With screws. Net. 81c

Model F-2PK (Fig. G)—Above, with mating Solderless Transmission Line Socket and mounting wood screws. Net Each..99c

Model F-11 Dual Flush Socket (Fig. H)—For installations where separate high and low channel antennas are used or where it is desired to terminate both TV and FM lines in one socket. Solderless. With screws. In brown or ivory. Net Each.... $1.25

Model F-11PK—Above, with one mating solderless Transmission Line Plug, F-9 mounting brackets and screws. Net Each..$1.60

Model F-14 Lead-In and 4-Wire Rotator Cable Socket (Fig. I)—Rotator cables mate with polarized multi-wire line plugs. Solderless. With screws. Brown or ivory. Net Each...... $1.25

Model F-14PK—Above, with F-9 mounting brackets. Solderless Transmission Line Plug and one Model 374 Solderless Polarized 4-Wire Line Plug. Net Each..........................$2.11

Model F-155 Socket (Not Ill.)—Combination lead-in and 5-wire rotator cable flush socket. Brown or ivory. Net Ea.. $1.25

Model F-155PK—Same, with F-9 brackets, one Solderless Transmission Line Plug and one Model 375 plug. Net Each....$2.11

Model F-18 Socket (Not Ill.)—Combination lead-in and 8-wire rotator cable flush socket. Brown or ivory. Net Ea.. $1.35

Model F-18PK—Above, with F-9 brackets, one Solderless Transmission Line Plug and one Model 378 plug. Net Each....$2.16

Model F-10 Combination Socket and 3-Way Switch (Fig. J)—Single lead-in socket combined with handy, constant impedance switch. Provides instant change-over to any one of 3 antennas or may be used to switch one antenna to 3 different TV sets. Rotary type switch, silver contacts. Brown or ivory. Net $2.25

Model F-10PK—Above, with one mating Solderless Transmission Line Socket and F-9 mounting brackets. Net Each......$2.64

MODEL F-20 3-WAY TV ANTENNA SWITCH (FIG. K)

Sturdy 3-position switch for easy change-over to any one of three antennas or for one antenna to three TV sets. Rotary type, silver-to-silver contacts. Polystyrene case has no effect on 300 ohm impedance. Extensions rod (as ill.) supplied for easy access when mounted on back of set. Four sections of 300 ohm line factory wired to switch, and Solderless Transmission Line Splicers supplied. Brown or ivory. Net Each..................... $2.25

MODEL F-9 FLUSH SOCKET MTG. BRACKETS (FIG. L)

Consists of 4 accurately punched and tapped heavy gauge steel straps with necessary machine screws. Requires rectangular wall opening 1¾″ wide x 4″ long. Net Price.............. 21c

MODEL 343 UNIVERSAL TV LEAD-IN SOCKET (FIG. M)

For mounting on baseboard, wall or directly on inside of Model 625 Wall-Thru. Mounts on metal chassis without shorting. Serves as line tap or terminal socket and provides constant impedance connection to 300 ohm line when used with Model 301 Line Plug. Precision molded polystyrene, phosphor bronze contacts. ⅝″ W., 1¾″ L., 9/16″ D. Solderless. Brown or ivory. Net Ea.. 48c

Model 343-PK—Above, with one universal line plug. Net.63c

MODEL 344 UNIVERSAL TV LEAD-IN RECEPTACLE (FIG. N)

Similar to Model 343, but designed with male pins. Brown or ivory. With mounting screws. Net Each............... 48c

Model 344-PK—Above, with one universal line plug. Net..63c

SOLDERLESS CONNECTORS

Mosley solderless multi-wire plugs, sockets and splicers provide fast, efficient and neat connections for TV and FM lead-in lines and rotator control cables. The use of high grade polystyrene and phosphor bronze contacts assures low loss at TV frequencies.and provides excellent mechanical and electrical connection.

Model 301 Universal Transmission Line Plug (Fig. O)—Only .02 db loss when mated with Model 311. Use with Flush Sockets and Model 343, as well as Model 500 and all octal tube sockets. Net Each.. 18c

Model 311 Universal Transmission Line Socket (Fig. P)—Mates with Model 301 Plug, 304 Input Adapter, Model 344 Universal Lead-In Socket. Solderless. Net Each............ 18c

Model 321 Polarized Transmission Line Connector (Fig Q)—Designed to prevent reversal of polarity when connecting or splicing standard 300 ohm line. Use in pairs. Per pair. Net.. 36c

Model 304 Input Adapter (Fig. R)—Ideal connector for TV sets, boosters, converters, etc. Attaches to antenna terminal strip at rear of chassis and mates with Model 311 Universal Transmission Line Socket to provide low loss, constant impedance plug-in connection at the set. For 300 ohm impedance. Net Each. 18c

Model 304-PK—Above, with one Model 311 Socket. Net Ea.36c

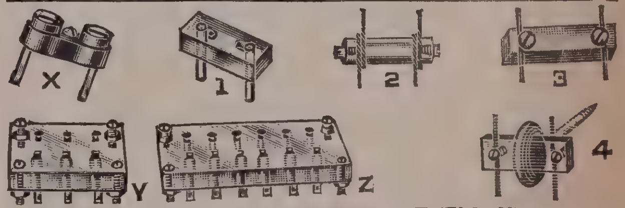
Model 29-S Tubular to Flat Line Splicer (Fig. S)—Solderless, for joining tubular or oval types to standard flat line. Ideal for UHF installation where it is desired to bring more easily hidden flat line into the house. Non-ferrous screws. Net Each.... 12c

Model 27-S Flat Line Splicer (Fig. T)—Handy, inexpensive. For standard flat 300 ohm line. Non-ferrous screws. Net Ea. 11c

ROTATOR PLUGS AND SOCKETS

Provides ultimate in convenience and efficiency where 4, 5 and 8 wire flat or round cable is terminated or connected. Solderless connection without need for set screws. Raised guide lines assits mating. 4 and 5-wire connectors have flat sides, 8-wire connectors are round. Solderless base sockets may be mounted on wood or metal. Molded polystyrene with plated brass pins and machine screws. Phosphor bronze contacts.

Mosley Type	Figure	Description	Net Each
374	U	Line Plug. For 4-wire cable.	$0.45
375	U	Line Plug. For 5-wire cable.	.49
378	U	Line Plug. For 8-wire cable.	.69
364	V	Line Socket. For 4-wire cable.	.58
365	V	Line Socket. For 5-wire cable.	.62
368	V	Line Socket. For 8-wire cable.	.75
354	W	Base Socket. For 4-wire cable.	.82
354-PK	W	354 with 4-wire line plug.	1.27
355	W	Base Socket. For 5-wire cable.	.90
355-PK	W	355 with 5-wire line plug.	1.39
358	W	Base Socket. For 8-wire cable.	1.05
358-PK	W	358 with 8-wire plug.	1.65



MODEL 500 CRYSTAL HOLDER SOCKET (FIG. X)

For standard holders with .095″ pins spaced ½″. Molded of Styron 700 which withstands temperature 20° F. higher than GP polystyrene. Phosphor bronze contact strips recessed. Contact strips and solder lugs are one piece. Designed for easy mounting under chassis or behind panel; supplied with 4-40 x 5/16″ plated brass machine screw and template. 7/16″ wide, 11/16″ long. Chassis or panels to ⅛″ thick. Net Each........................ 21c

MODEL 53 3-GANG MULTI-SOCKET (FIG. Y)

Ideal for use with selector switch to provide rapid frequency shift in crystal controlled transmitters. Takes crystal holders with .096″ pins spaced ½″ and Model 301 Universal Line Plug. Low-loss acrylic plastic, phosphor bronze contacts. Supplied with plated brass machine screws. Net Each................ 65c

MODEL 56 6-GANG MULTI-SOCKET (FIG Z)

Similar in construction to Model 53, but designed to take six crystal holders or Model 301 plugs. Net Each......... $1.25

MODEL 75-5 CRYSTAL HOLDER ADAPTER (FIG. 1)

Takes crystal holder with pins spaced ¾″ and plugs into sockets having ½″ spacing. Fits octal sockets as well. Net.. 35c

Model 5-75 Adapter—Similar to above, except adapts ½″-spaced holder for use in ¾″ sockets. Net Each..................35c

MODEL 450-1 SPLICER (FIG 2)

For joining sections of standard 1″, 450 ohm open-wire line. Also ideal for splicing standard 300 ohm flat line to open wire line. Solderless, unaffected by weather. Net Each........ 10c

SPACER BARS (FIG. 3)

Mosley No.	For Spacing	Net	Mosley No.	For Spacing	Net
450-3	1″	6c	450-34	4″	22c
450-32	2″	17c	450-36	6″	25c

MODEL 450-2 ANCHOR BAR (FIG. 4)

Use with TV screw-eye stand-off of any size or shape. Holds 1″ open-wire line secure with proper wire spacing. Low-loss acrylic with non-rusting screws. Less stand-off. Net...... 18c

TELCO Television Hardware

CHIMNEY AND WALL MOUNTS

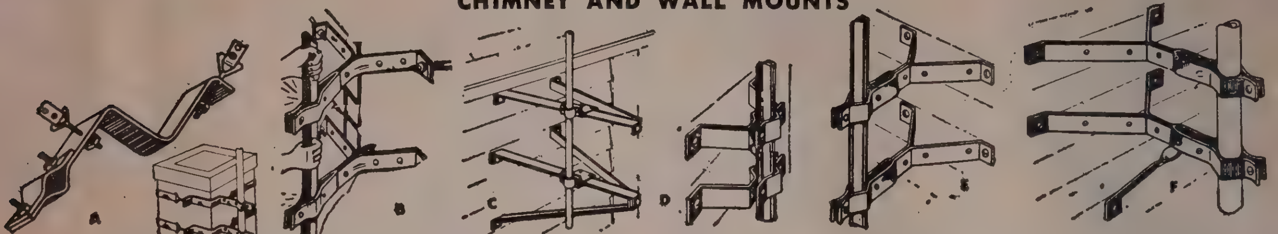


FIG. A—CHIMNEY QUICK MOUNT

Installs in a few minutes. Only one piece, with a minimum of loose parts. Extra-heavy gauge steel. Zinc plated and dichromate dipped for long life. Brackets will support masts up to 1¾″ diameter Includes straps and hardware.
Telco Model 8005—With ¾″ steel strapping. Net Each. . $1.44

FIG. B—SNAP-IN CHIMNEY MOUNT

Stainless steel strapping. Fits masts to 1¾″ diameter. Extra-heavy gauge steel. Zinc plated and dichromate dipped for long life. Chimney clearance 4″. Simply snap the mast in and tighten the bolts. Complete with stainless steel strap and all hardware.
Telco No. 8930—Net Each.................................$2.55

FIG. B—SNAP-IN CHIMNEY MOUNT

Fits masts up to 1¾″ diameter. Made of extra-heavy gauge steel. Zinc plated and dichromate dipped. Clearance4″. Same construction as Model 8930 above, except supplied with ¾″ galvanized steel strapping.
Telco No. 8610—Net Each............................... $1.80

FIG. C—DELUXE ADJUSTABLE UNIVERSAL WALL MOUNT

This superior bracket can be adjusted from 1″ to 19″ clearance and can be used on any surface, smooth or uneven. Each leg can be separately adjusted. Can be used to clear eaves, fixtures and overhanging roofs. Universal clamp holds masts to 1½″ diameter. Angle support on bottom bracket. Made of extra-heavy gauge steel. Zinc plated and dichromate dipped.
Telco No. 8230—Net Each................................ $3.57

FIG. D—CLOSE WALL MOUNTS

Ideal where large clearance is not needed. Extra-heavy gauge steel. Zinc plated and dichromate dipped. Complete with al hardware. Hold masts to 1¾″.
Telco No. 8302—Clearance 2¼″. Net Each..............81c
Telco No. 8304—Clearance 4″. Net Each...............$0.90

FIG. E—SNAP-IN WALL MOUNTS

Simply snap the mast in, tighten the bolts and the job is done. Made of heavy gauge steel. Zinc plated and dichromate dipped. Complete with hardware. Holds masts to 1¾″ diameter.
Telco No. 8306—6″ clearance. Net Each................. $1.20
Telco No. 8308—8″ clearance. Net Each.................$1.95

FIG. F—MASTER DELUXE SNAP-IN WALL MOUNTS

Extra sturdy mounts. Brackets spaced 16″ so as to fasten to 16″ 2 x 4 spacing in homes. Eliminates "side sway" of antennas. Extra-heavy gauge steel. Zinc plated and dichromate dipped. Fits masts to 1¾″ diameter.
Telco No. 8312—12″ clearance. Net Each............... $2.10
Telco No. 8318—18″ clearance. Net Each...............$2.70
Telco No. 8324—24″ clearance. Net Each............... 3.66

PEAK, VENT AND ROOF MOUNTS

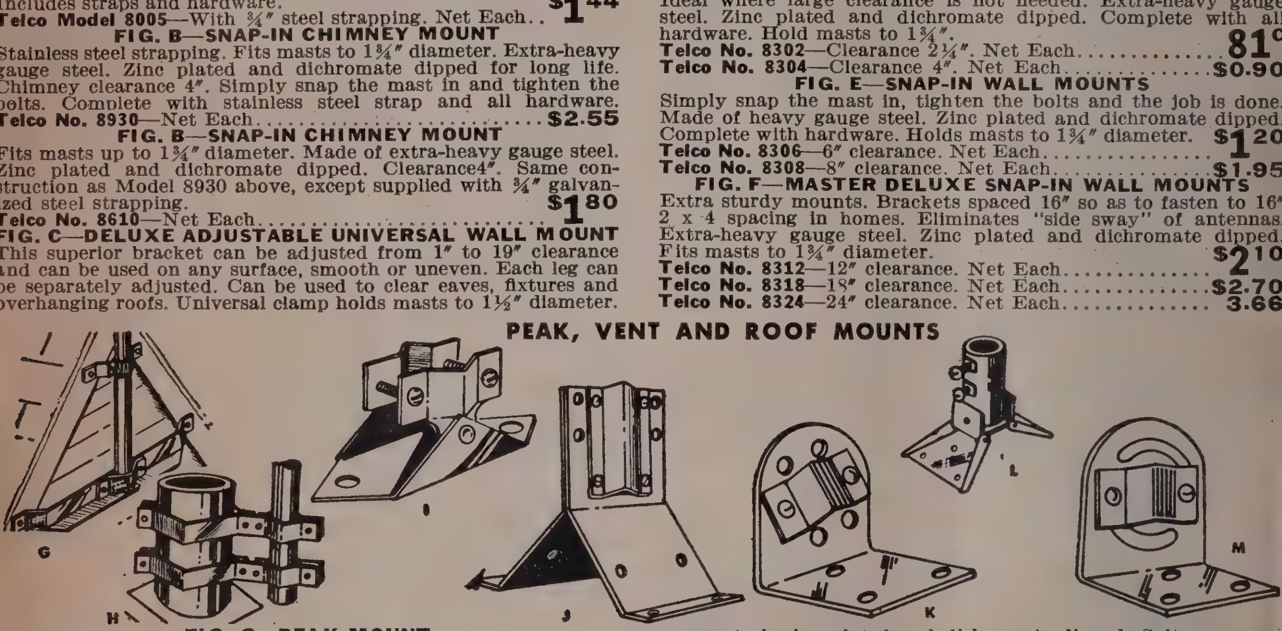


FIG. G—PEAK MOUNT

A convenient way to mount antennas. Simply fasten brackets to peak. 30″ lower support. Extra-heavy gauge angle iron. Zinc plated and dichromate dipped. Holds masts to 1¾″
Telco No. 8625—Complete with hardware. Net Each.... $2.37
Telco No. 8933—8625 with 30″ lower support. Net Each.$3.57

FIG. G—GROUND-UP PEAK MOUNT

Heavy steel mount insures sturdy masts installed from the ground. Also a convenient way to mount antennas. 48″ lower support. Extra-heavy steel. Zinc plated and dichromate dipped. Complete with hardware.
Telco No. 8934—Net Each........................... $3.90

FIG. H—VENT MOUNT

Clamps on any size pipe or vent. Only two pieces to clamp on with bolts. Extra-heavy gauge steel. Zinc plated and dichromate dipped.
Telco No. 8802—For 2″ to 4″ vents. Net Each........... $1.35
Telco No. 8803—For 4″ to 6″ vents. Net Each...........$1.35

FIG. I—PIVOT SWING MOUNT

Swing-up base for antenna masts of up to 1¼″ diameter. Heavy gauge steel, zinc plated and dichromate dipped. Salt spray an corrosion resistant.
Telco No. 8622—Net Each.................................39c

FIG. J—ALL-PURPOSE ANTENNA MAST BRACKET

For angle roofs, flat roofs and for corner mounting. Support masts up to 1¾″ diameter. Mounts masts in two positions. Extra heavy guage steel. Zinc plated and dichromate dipped.
Telco No. 8575—Net Each............................. $1.65

FIG. K—"ANY ANGLE" MAST MOUNT

Holds up to a 1¾″ mast at any angle. Heavy gauge steel. Zin plated and dichromate dipped.
Telco No. 8620—Net Each.................................33c

FIG. L—HEAVY DUTY RIDGE MOUNT

Allows tall masts to be swung up along ridge. Extra-heavy gaug steel. Zinc plated and dichromate dipped. Adjustable to any angle
Telco No. 8630—Masts to 1¾″ diameter. Net Each......$1.95
Telco No. 8632—Masts to 2″ diameter. Net Each........$2.25

FIG. M—SWING-UP MOUNT WITH "SWING-UP" SLOTS

Holds up to a 1¾″ mast securely at any angle. Made of heav gauge steel. Zinc plated and dichromate dipped.
Telco No. 8800—Net Each.................................33c

GROUND WIRE, ARRESTORS, ROOF SEAL, MAST COUPLERS, GUY WIRE

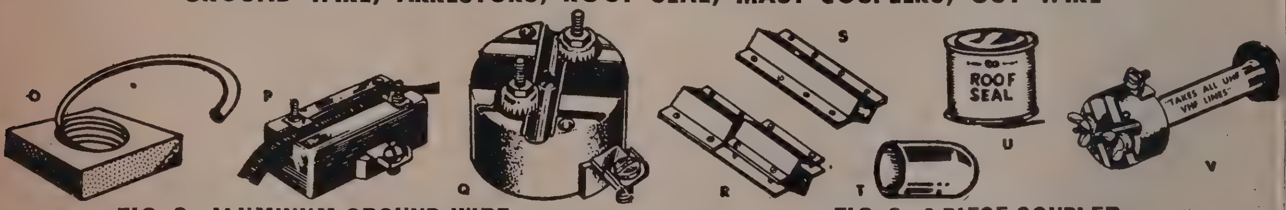


FIG. O—ALUMINUM GROUND WIRE

Size No. 8 soft-drawn aluminum ground wire is recommended for use in the National Electric Code. Non-insulated for grounding mast to protect from lightning and electrical disturbances.
Telco No. 8830—500 foot carton. Net Each............ $7.80

FIG. P—UHF AND VHF TV LIGHTNING ARRESTOR

All-weather, U/L approved arrestor especially designed to make TV antenna installation easy. For 300-ohm line.
Telco No. 8640—Net Each.............................60c

FIG. Q—UNIVERSAL UHF & VHF LIGHTNING ARRESTOR

Fits all types of lines—UHF, VHF, Hollow, Oval, Open, Square and Regular. U/L Approved for both indoor and outdoor use. Installs with two screws. No ears or straps to break off. Can be fastened to wall, mast or pipe. Strap supplied for mast mounting.
Telco No. 8642—Net Each........................... 75c

FIG. R—3-PIECE MAST COUPLER

Sturdy coupler to extend different size masts together. Will couple masts 1″ to 1¾″ in diameter.
Telco No. 8645—Complete with all hardware. Net Each... 75c

FIG. S—2-PIECE COUPLER

Sturdy coupler for extending TV masts. Will couple masts 1″ t 1¾″ diameter.
Telco Model 8371—Complete with all hardware. Net Each. 75c

FIG. T—UHF LINE CAPS

For sealing round and oval hollow line ends. Simply slip th plastic cap over the end of the line.
Telco No. H-8912—Plastic box of 8 caps. Net Each........30c
Telco No. H-8912-C—Bulk pack of 100 caps. Net Each...$3.0

FIG. U—ROOF-SEAL COMPOUND

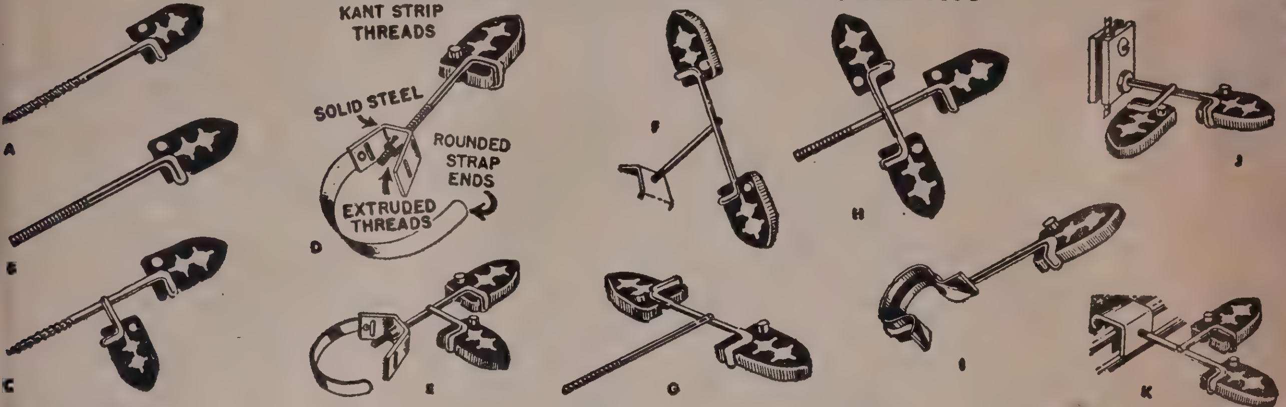
Eliminates call-backs on roof installations. Seals all contacts t roof. Easy to use.
Telco No. 18-16—Pint can. Net Each....................60c

FIG. V—LEAD-IN TUBE—LIGHTNING ARRESTER

Can be cut to desired length with arrester outside, wall plu inside. Fits ¾″ hole in walls to 16″ thick. Comes wired.
Telco No. 8641—Arrester-Lead-In combination. Net Each $1.7
Telco No. 8644—Special length for trailers. Net Each....$1.7

TELCO Television Accessories

E-Z "SWING IN" UHF AND TELEVISION STANDOFFS



Telco No.	Fig.	Description	Net Ea.
EZ8027	A	Wood Screw Type, 3½" long	5c
EZ8028	A	Wood Screw Type, 5½" long	5c
EZ8029	A	Wood Screw Type, 7½" long	6c
EZ8031	B	Machine Screw Type, 3½" long	5c
EZ8032	B	Machine Screw Type, 5½" long	5c
EZ8035	B	Machine Screw Type, 7½" long	6c
EZ8253	D	Kant Strip Standoff, Galv. Straps, 3½" long	13c
EZ8254	D	Kant Strip Standoff, Galv. Straps, 5½" long	14c
EZ8257	D	Kant Strip Standoff, Galv. Straps, 7½" long	15c
EZ8258	E	Same, 7½" Double Inline Type	21c
EZ8259	E	Same, 7½" Double T Type	21c
EZ8395	....	Same, Triple Type	30c
EZ8353	D	Kant Strip, Stainless Steel Straps, 3½" long	19c
EZ8354	D	Kant Strip, Stainless Steel Straps, 5½" long	17c
EZ8357	D	Kant Strip, Stainless Steel Straps, 7½" long	18c
EZ8358	E	Same, Double Inline Type	24c
EZ8359	F	Same, Double T Type	24c
EZ8396	....	Same, Triple Type	33c

Telco No.	Fig.	Description	Net Ea.
EZ8225	C	Double Inline, Wood Screw, 7½" long	17c
EZ8226	....	Double Inline, Machine Screw, 7½" long	17c
EZ8809	....	Double T Type, Wood Screw, 7½" long	17c
EZ8810	G	Double T Type, Machine Screw, 7½" long	17c
EZ8397	....	Triple Type, Wood Screw, 7½" long	24c
EZ8398	H	Triple Type, Machine Screw, 7½" long	24c
EZ8798	I	Mast Snap On, 3½" long for 1¼" Mast	9c
EZ8795	I	Mast Snap On, 7½" long for 1¼" Mast	13c
EZ8796	I	Double Snap On Inline, 7½" long, 1¼" Mast	20c
EZ8255	....	Single Guy Wire Clamp, 3½" long	15c
EZ8256	J	Duplex Inline Guy Wire Clamp, 7½" long..	21c
EZ8811	....	Single Eave Clamp, 3½" long	27c
EZ8813	....	Single Eave Clamp, 7½" long	30c
EZ8812	K	Inline Double Eave Clamp, 7½" long	36c
EZ8815	....	T-Type Double Eave Clamp, 7½" long	36c

TELEVISION INTERLOCK CORDS AND RECEPTACLE

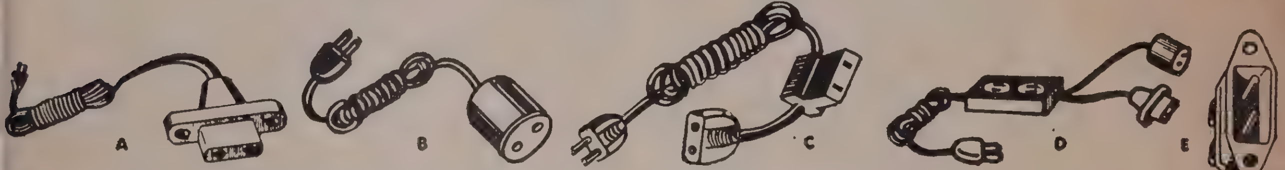


FIG. A—TV INTERLOCK SAFETY CORDS

Replacement TV interlock or "cheater" cords. Made of best grade of wire, with molded plugs attached. Underwriters approved.

Telco No. 8200—6-foot regular TV cord. Net Each....... 45c

Telco No. 8788—9-foot regular TV cord. Net Each........ 66c

FIG. B—ZENITH INTERLOCK SAFETY CORD

Replacement of "cheater" cord used as a safety interlock for Zenith television receivers

Telco No. 8201—Net Each.............................. 60c

FIG. C—SERVICEMEN'S CHEATER CORD

Special cheater cord for extending the standard interlock safety cord supplied with the TV receiver. Mates with No. 8200 or 8788 above. Includes an extra current tap for trouble light, tester, etc.

Telco No. 8948—Net Each.............................. 78c

FIG. D—DELUXE COMBINATION INTERLOCK CHEATER CORD

The complete combination "cheater cord". Includes receptacles for both standard and Zenith style male plugs and a duplex outlet for test equipment, soldering iron, etc.

Telco No. 8949—Net Each.............................. $1.50

FIG. E—TV INTERLOCK CORD RECEPTACLE

Handy receptacle for connecting No. 8200 TV interlock cords.

Telco No. 8634—Net Each.............................. 15c

TELEVISION CAPS, SOCKET, EXTENSIONS, LEADS

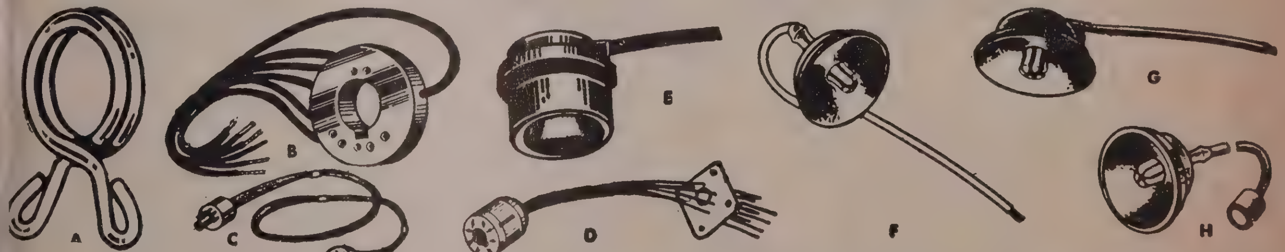


FIG. A—TV SPRING-TYPE GRID CAPS

For high voltage TV rectifier tubes. Constant contact and pressure due to spring type construction. Will not slip off. For ¼" (**No. 8838-1RC**) and ⅜" (**No. 8838-2RC**) caps.

Telco No. 8838-1RC—In lots of 100. Per 100, Net Price.. $2.70

Telco No. 8838-2RC—In lots of 100. Per 100, Net Price...$2.70

FIG. B—DUO-DECAL SOCKET

Replacement picture tube socket with six 18" leads. Can also be used on electrostatic tubes.

Telco No. 8947—Net Each.......................... 72c

FIG. C—TV TUBE EXTENSION

Handy TV tube extension for service work. Cord complete with plugs. 48" long. Can also be used on new electrostatic tubes. Saves time in repairing TV sets.

Telco No. 8856—Net Each.......................... $1.50

FIG. D—YOKE COIL EXTENSION

Universal, fits most sets. Male plug end wires so arranged that they can be individually inserted in receptacle. Guide insures proper insertion. Extends yoke coil leads 48" to eliminate necessity of removing tube from cabinet.

Telco No. 8847—Net Each.......................... $2.70

FIG. E—TV INSULATED HIGH VOLTAGE GRID CAPS

Heavy bakelite cap wired with high voltage wires 10" long

Telco No. 8834—¼" size. Net Each.................... 27c

Telco No. 8835—⅜" size. Net Each.................... 27c

FIG. F—STRAIGHT ANODE LEAD

High voltage "Ozone-proof" rubber cap. Will not deteriorate and break up from high voltage. Leads 18" long.

Telco No. 8636—Net Each.......................... 60c

FIG. G—ANGLE ANODE LEAD

Same as above, except lead extends from side of cap.

Telco No. 8637—Net Each.......................... 60c

FIG. H—TV ANODE EXTENSION

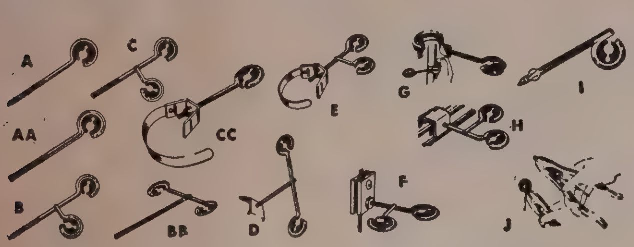
Handy for extanding high voltage TV anode leads. Made with pure gum "Ozone-proof" cap and high voltage plastic plug. Extension 36" long.

Telco No. 8693—Net Each.......................... 90c

TELCO Television Hardware

TELCO UNIVERSAL UHF-VHF STAND-OFFS

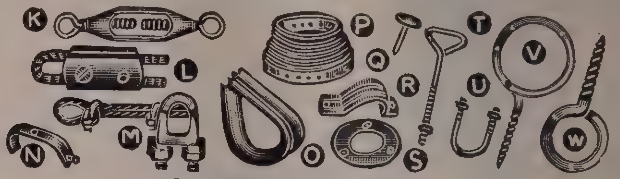
5 types of inserts available for all lines. Prices are same. For standard type use part number below. For others use **letter suffix** as follows: **B**—for UHF Universal insert, **A**—for UHF Anaconda insert, **X**—for large round or coax type, **H**—for regular and oversize round tubular and hollow lines.



No. 8027 (Fig. A)—Universal Stand-off, 3½", wood screw. Genuine Polyethylene insert No. 9. Lot of 100, Net Price **$2.50**
No. 8028—Same, 5½" wood screw. Lot of 100, Net Price **$4.84**
No. 8029—Same 7½", wood screw. Lot of 100, Net Price **5.33**
No. 8030—Same, 12" wood screw. Net Each............ **9c**
No. 8031 (Fig. AA)—Universal, machine screw type. 10-32 thread. Lot of 100, Net Price.......................... **$3.60**
No. 8032—Same, 5½" machine screw. Lot of 100, Net...**$4.80**
No. 8035—Same, 7½" machine screw. Lot of 100, Net... **5.40**
No. 8225 (Fig. B)—Duplex In-Line type. 7½" wood screw. Net Each... **15c**
No. 8226 (C)—Same, except 10-32 machine screw type. Net **15c**
No. 8809 (Fig. BB)—T-Type. 7½" wood screw type. Net Ea. **17c**
No. 8810—Same, 7½" 10-32 machine screw type. Net Each **17c**
No. 8253 (Fig. CC)—Kant-Strip Mast Stand-offs. 3½" single, 9" galvanized strap. Net Each.................... **10c**
No. 8353—Same as 8253, with stainless steel strap. Net....**15c**
No. 8254—Same as 8253, 5½" single. Net Each............**13c**
No. 8354—Same as 8254, with stainless steel strap. Net.....**18c**
No. 8257—Same as 8254, 7½" single. Net Each............**15c**
No. 8357—Same as 8257, with stainless steel strap. Net.....**21c**
No. 8258 (Fig. E)—Kant-Strip In-Line Duplex Mast 7½" Stand-off. Galvanized strap. Net Each.................. **18c**
No. 8358—Same as 8258, stainless steel strap. Net Each....**21c**
No. 8259 (Fig. D)—Kant-Strip T-Type Duplex Mast 7½" Stand-off. Galvanized strap. Net Each.................. **24c**
No. 8359—Same as 8259, stainless steel strap. Net Each....**27c**
No. 8797 (Fig. G)—Snap-On Stand-off for 1" mast. Easy to put on and really stays on. Net Each.................... **6c**
No. 8798—Same as 8797 except for 1¼" mast. Net Each.....**6c**
No. 8343 (Fig. I)—Nail-In Stand-Off. 3½" size. In lot of 100, Net Price................................ **$5.40**
No. 8255 (Fig. F)—Guy "Wire-Grip" Stand-Off, fastens permanently to guy wire. 3½" single type. Net Each...... **11c**
No. 8256 (Fig. F)—Same as 8255, 7½" Duplex type. Net Ea. **18c**
No. 8811 (Fig. H)—Eave Type Clamp-On Stand-off. Simplifies installation. 3½" single type. Net Each............ **15c**
No. 8812—Same as 8811, 7½" Duplex type. Net Each......**24c**
No. 8815—Same as 8811, 7½" T-Type Duplex. Net Each...**25c**
No. 8450 (Fig. J)—TV Stand-Off "Eye-Opener". Specially made to open and close stand-off eyes. Net Each......... **75c**

TV INSERTS

Four low-loss polystyrene inserts for TV lead wires and cables. **No. 8025**—Regular standard type. **No. 8025-B**—Universal UHF Type B. **No. 8025-X**—Co-ax type. Net Per Hundred (Specify number)...................... **$1.59**
No. EZ-8025—Universal EZ Insulator. Net Hundred.....**$2.49**



TURNBUCKLES (FIG. K)

Telco No.	Open	Closed	Net	Telco No.	Open	Closed	Net
8056	3⅜"	4⅝"	11c	8365	5½"	7⅝"	15c
8057	4"	5⅝"	12c	8366	6¾"	9¼"	26c
8058	4½"	6⅜"	13c	8367	7½"	10½"	38c

GUY WIRE CLAMPS (Fig. L)—Zinc plated steel. Screwdriver adjusted. **Telco No. 8347**—Net Each.................. **12c**
CABLE CLAMPS (Fig. M)—Galvanized steel. **Telco No. 8131**—Net Each...**15c**
Telco No. 8133—Small Size. Net..............................**15c**
GROUND CLAMPS (Fig. N)—**Telco No. 8120**—**C**-type, fits pipes ⅜" to 2". Strap type. Net Each...........................**18c**
Telco No. 8121—Same, made of copper. Net Each.........**15c**
Telco No. 8936—Aluminum, use with alum. ground wire. Net **15c**
WIRE THIMBLES (Fig. O)—Prevent guy wire from breaking and loosening up. Galvanized steel. **Telco No. 8132**—Net Each....**4c**
CHIMNEY STRAP (Fig. P)—Galvanized annealed strap, ¼" punched holes. **Telco No. 8051**—12-ft. coil. Net Each.......**51c**
Telco No. 8052—Same, 100-ft. coil. Net Each...........**$3.30**
300-OHM WIRING NAILS—**(Fig. Q)**—Fibre head, for nailing down 300-ohm line. **Telco No. 8020-C**—Box of 100. Net Price **60c**
MAST STRAPS—**(Fig. R)**—Galvanized steel, for 1" OD masts. **Telco No. 8130**—Net Each...................................**3c**

FLOATING GUY RINGS (Fig. S)

No.	Mast Size	Ring ID	Net	No.	Mast Size	Ring ID	Net
8055	¾"-1"	1⅛"	13c	8316	1½"	1⅝"	14c
8313	1⅛"	1¼"	14c	8316A	1¾"	1⅞"	14c
8314	1¼"	1⅜"	14c	8317	2"	2⅛"	14c
8315	1⅜"	1½"	14c				

CHIMNEY AND MAST HOOK (Fig. T)—Cadmium plated steel, welded for extra strength. **Telco No. 8049**—Net Each........**6c**
U-BOLTS (Fig. U)—Fits masts ¾" to 1⅜" diameter. Inside max. size, 1⅜" wide x 3" long. With nuts. **Telco No. 8123**—Net..**12c**
BRIDLE RINGS (Fig. V)—Hot galv. steel. **No. 8153**—Net Ea. **6c**
SCREW EYES (Fig. W)—Steel, cadmium plated. **Telco Model 8078**—1" eye. Net Each...................................**3c**
Model 8342—3" eyes. Net **6c. Model 8486**—5" eyes. Net Each **7c**
Model 9027—7" Extra Heavy Duty. Net Each............. **9c**

GUY WIRE CLAMPS, RINGS, TV HOOKS, ANCHORS, SCREWS

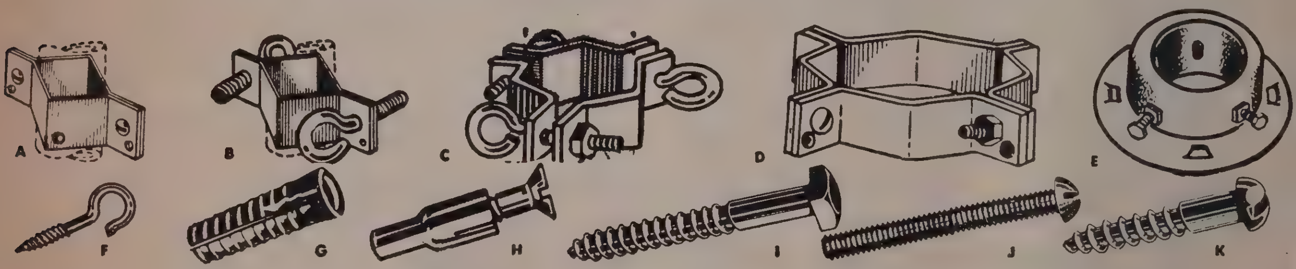


FIG. A—GUY WIRE CLAMP

Handy clamp to fasten to mast for attaching guy wires. Heavy steel, zinc plated. Fits masts from ¾" to 1½" diameter.
Telco No. 8372—Complete with screws. Net Each........ **18c**

FIG. B—GUY WIRE CLAMP WITH SCREW EYES

Made with screw eyes for easy fastening of guy wire. Made of heavy steel zinc plated. Fits masts to 1½" diameter.
Telco No. 8939—Net Each.................................. **24c**

FIG. C—3-WAY GUY WIRE CLAMP

Made with 3 screw eyes. Will fit masts to 2½" diameter. Made of heavy steel, zinc plated and dichromate dipped.
Telco No. 8911—Net Each.................................. **30c**

FIG. D—UNIVERSAL GUY WIRE MAST CLAMP

New patented type will fit masts from ¾" to 3" in diameter. Split type—they can be slipped over mast or put on after mast is erected. Adding section increases size.
Telco No. 8374—Net Each.................................. **39c**

FIG. E—DELUXE FLOATING GUY RING

Sturdy, well-built rotating guy ring to support masts up to 2" in diameter. Made of cast aluminum, machined for easy rotation. Mast can be rotated after antenna is put up.
Telco No. 8650—Net Each.................................. **$1.77**

FIG. F—OPEN TV HOOKS

Made of heavy gauge wire, zinc plated. The best type of hook for fastening TV guy wire.
Telco No. 8732—4½" long, No. 2 wire. Net Each............ **7c**
Telco No. 8735—3½" long, No. 5 wire. Net Each............**5c**

FIG. G—LEAD ANCHORS

For wood screws. Will fit ¼" and 5/16" holes and will take Nos. 10, 12, and 14 wood screws.
Telco No. 8084—1" long. Net Each........................ **6c**
Telco No. 8085—1½" long. Net Each........................**10c**

FIG. H—PLASTIC HOL-TITE SCREW ANCHORS

For anchoring TV mast brackets, etc., to brick or cement walls. Can be used in any type of material. Weather-proof and moisture-proof. Use inside or outside.
Telco No. 8841—100 assorted sizes. Net Price.......... **$3.30**
Telco No. 8842—No. 8 for No. 8 screw. Net Each..........**2c**
Telco No. 8843—No. 12 for No. 12 screw. Net Each.........**3c**
Telco No. 8844—No. 16 for ¼" screw. Net Each.............**4c**
Telco No. 8845—No. 20 for 5/16" screw. Net Each............**5c**

FIG. I—1/4" LAG SCREWS

Steel cadmium plated lag screws especially made for TV installations and brackets.
Telco No. 8064—¼" x 1¼" long. Net Each.................. **5c**
Telco No. 8065—¼" x 2" long. Net Each.....................**5c**
Telco No. 8937—¼" x 3½" long. Net Each...................**7c**
Telco No. 8938—5/16" x 3½" long. Net Each..................**9c**

FIG. J—LONG MACHINE SCREWS

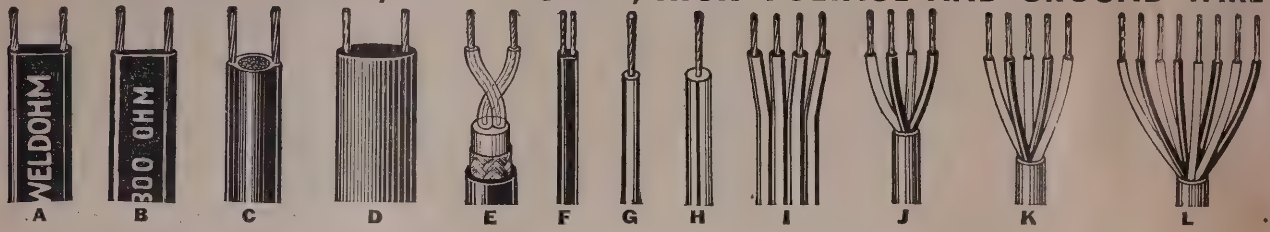
Steel, zinc plated. Dichromate dipped. Round head.
Telco No. 8521-C—¼, 20 x 1¾" long. Lot of 100. Net.... **$2.16**

FIG. K—TV WOOD SCREWS

Round head steel zinc plated, dichromate dipped.
Telco No. 8071-C—No. 8 x 1¼". Lot of 100, Net Price.... **$1.20**
Telco No. 8073-C—No. 10 x 1½". Lot of 100. Net Price... **2.07**
Telco No. 8075-C—No. 12 x 1½". Lot of 100, Net Price... **2.40**
Telco No. 8076-C—No. 14 x 1¾". Lot of 100, Net Price... **2.67**

Belden Wire and Cable

TV TRANSMISSION LINE, ROTOR CABLE, HIGH VOLTAGE AND GROUND WIRE



NO. 8230 WELDOHM® 300-OHM CABLE (FIG. A)

Greater service in TV installations requiring long runs from receiving antennas. Over 2½ times the flex-life and over 1½ times the breaking strength of the equivalent in copper. **20 A.W.G.** 7 x 28 stranded annealed copper coated steel wire; two conductors parallel; brown polyethylene plastic insulation. .072″ x .400″ nominal diameter. **Nominal Impedance:** 300 ohms.

50′ Pancake Coil—Net. **$1.20** **75′ Pancake Coil**—Net. **$1.80**
100′ Pancake Coil—Net **2.25** **500′ Spool**—Net....... **10.50**
1000′ Spool—Net.............................. **20.00**

NO. 8225 300-OHM CABLE (FIG. B)

For use with television and FM receiving antennas. Especially low losses at high frequencies. **20 A.W.G.** 7 x 28 stranded bare copper conductor; 2 conductors parallel; brown polyethylene plastic insulation .058″ x .400″ nominal diameter. All specifications are the same as No. 8230 Cable above.

50′ Pancake Coil—Net. **$1.20** **75′ Pancake Coil**—Net. **$1.80**
100′ Pancake Coil—Net **2.10** **500′ Spool**—Net....... **9.40**
1000′ Spool—Net.............................. **18.50**

NO. 8275 CELLULINE® WELDOHM® CABLE (FIG. C)

Stronger UHF and VHF pictures, more constant impedance, no costly end-sealing or draining required. **20 A.W.G.** 7x28 stranded annealed copper coated steel wire; brown polyethylene plastic jacket with inert gas filled unicellular polyethylene core, .300″ nominal diameter round, .356″ over conductor insulation. **Nominal Impedance:** 300 ohms. **Nominal Capacitance:** 4.6 μμf/ft.

50′ Coil—Net......... **$2.40** **75′ Coil**—Net........ **$ 3.45**
100′ Coil—Net........ **4.60** **500′ Spool**—Net..... **22.95**
1000′ Spool—Net.............................. **45.90**

NO. 8235 WELDOHM® 300-OHM CABLE (FIG. D)

Greater service life in TV installations requiring long runs from receiving antennas. Over 2½ times the flex-life and over 1½ times the breaking strength of the equivalent in copper. **20 A.W.G.** 7x28 stranded copper coated steel wire; two conductors parallel; brown polyethylene plastic insulation; .185″ x .520″ nominal diameter. **Nominal Impedance:** 300 ohms. **Nominal Capacitance:** 5.0 μμf/ft.

100′ Spool—Net....... **$4.65** **500′ Spool**—Net..... **$21.00**

NO. 8227 SHIELDED CABLE (FIG. E)

For use with television and FM antennas in extremely noisy locations. **20 A.W.G.** 7x28 stranded, 1 bare, 1 tinned copper conductor; polyethylene plastic insulation; two conductors cabled (polyethylene plastic jacket, tinned copper braid shield, black vinyl plastic jacket); .325″ nominal diameter. **Nominal Impedance:** 100 ohms. **Nominal Capacitance:** 15.5 μμf/ft. between conductor.

Spool of 100′—Net... **$10.50** **250′**—Net........... **$25.60**
500′—Net.............................. **$51.20**

NO. 8222 HIGH FREQUENCY CABLE (FIG. F.)

For use with receiving antenna at high frequencies. **20 A.W.G.** 7x28 stranded bare copper; two conductors parallel; brown polyethylene plastic insulation. **Nominal Impedance:** 72 ohms. **Nominal Capacitance:** 20.3 μμf/ft. .075″ x .128″ nominal diameter.

100′ Spooled and Cartoned—Net **$1.65; 500′ Spool**—Net **$7.20**

NO. 8224 HIGH FREQUENCY CABLE

For use with receiving antenna, matching transformer and experimental applications at high frequencies. Same as No. 8222 except **Nominal Impedance:** 150 ohms. **Nominal Capacitance:** 9.0 μμf/ft .075″ x .182″ nominal diameter. Greater velocity of propagation. less attenuation in db per foot.

Spool of 100′—Net.... **$2.20** **Spool of 500′**—Net..... **9.00**

NO. 8869 HIGH VOLTAGE LEAD CABLE (FIG. G)

20 A.W.G. 7x28 stranded tinned copper conductor; .035″ flame retardant Rulan polyethylene plastic insulation. **Color:** White. .108″ nominal diameter. **Puncture Voltage:** 32,000 volts. **Temperature Rating:** 100° C. **Suggested Working Voltage:** 10,000 volts.

25′ Coiled and Cartoned—Net **$0.66** **100′ Spool**—Net **$1.80**

NO. 8868 HIGH VOLTAGE LEAD CABLE (FIG. H)

20 A.W.G. 7x28 stranded tinned copper conductor; .065″ flame retardant Rulan polyethylene plastic insulation. **Color:** White with red stripe. **Nominal Diameter:** .168″. **Puncture Voltage:** 54,000 volts. **Temperature Rating:** 100° C. **Suggested Working Voltage:** 20,000 volts.

25′ Coiled and Cartoned—Net **$1.02** **100′ Spool**—Net **$3.25**

NO. 8464 ROTOR CABLE (FIG. I)

A minimum voltage drop in long runs. **20 A.W.G.** 7x28 stranded bare copper conductor. Four conductors parallel. Gray vinyl plastic insulation; one outer conductor tinned for polarity. .070″ x .390″ nominal diameter.

75′ Pancake Coil—Net. . **$ 2.65** **100′ Pancake Coil**—Net. **$ 3.55**
500′ Spool—Net........ **16.45** **1000′ Spool**—Net....... **31.05**

NO. 8484 4-CONDUCTOR ROTOR CABLE (FIG. J)

20 A.W.G. 7x28 stranded bare copper conductor; .010″ vinyl plastic insulation; four conductors parallel, Black, Green, Red and White. .015″ tubed chrome vinyl plastic jacket, .170″ nominal diameter.

Spool of 100—Net **$3.70; 500′**—Net **$16.18; 1000′**—Net **$31.90**

NO. 8485 5-CONDUCTOR ROTOR CABLE (FIG. K)

Same cable as No. 8484 except five conductors parallel: Black, Green, Red, White, Yellow; .180″ nominal diameter.

Spool of 100′—Net $4.30; 500′—Net $19.58; 1000′—Net $38.40

NO. 8488 8-CONDUCTOR ROTOR CABLE (FIG. L)

22 A.W.G. 7x30 stranded bare copper conductor; .010″ vinyl plastic insulation. Eight conductors cabled: Black, Blue, Brown, Green, Orange, Red, White, Yellow. .020″ tubed chrome vinyl plastic jacket. .205″ nominal diameter.

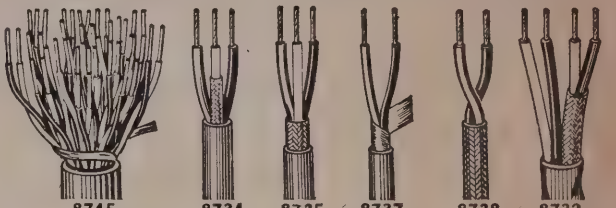
Spool of 100′—Net **$5.10; 500′**—Net **$23.65; 1000′**—Net **$46.40**

NO. 8018 SOLID ALUMINUM GROUND WIRE (Not Ill.)

8 A.W.G. Aluminum wire, soft annealed, .128″ nominal diameter. Ten 50′ coils in counter dispenser. Coils are connected and may be cut up for any 50′ multiple—up to 500′. 500′ and 1000′ spools marked at 100′ intervals for easy measuring.

50′ Coil—Net......... **$0.63** **500′ Spool**—Net..... **$ 6.75**
1000′ Spool—Net.............................. **12.30**

INTERCOM AND SOUND SYSTEM CABLES


8745 8734 8735 8737 8738 8732

UNSHIELDED TYPE (ILL. 8745)

Outstanding in performance and dependability. Special approved vinyl compounds, precision short lay cabling, waterproof outer free-stripping chrome vinyl jacket, quick termination, positive color coding, small diameter. **22 A.W.G.**

Belden No.	No. of Pairs	Nom. Diam.	Conductor	Net Price, Spool of 100′	500′	1000′
8740	1	.134″	Solid	$ 2.05	$ 8.85	$ 16.20
8741	2	.185″	Solid	3.30	15.20	28.90
8742	3	.220″	Solid	4.45	20.20	39.15
8743	6	.265″	Solid	6.90	33.68	67.35
8744	9	.320″	Solid	9.55	45.25	92.00
8753	11	.360″	Solid	12.90	65.25	126.50
8745	15	.390″	Solid	16.75	82.50	†160.50
8746	27	.510″	Solid	Specify Length. Per Ft. *.33		
8747	6	.310″	7x30	10.35	43.13	88.50
8748	9	.355″	7x30	12.45	61.58	137.85
8749	15	.460″	7x30	22.00	108.18	†212.00
8750	27	.555″	7x30	Specify Length. Per Ft. *.43		

†On 1000 ft. returnable reel. *Per Foot.

SHIELDED TYPE

Beld. No.	No.* Cond.	Wire	A. W. G.	Nom. Diam.	Net Price, Spool of 100 Ft.	500 Ft.	1000 Ft.
8734	3-a	7x30	22	.184″	$4.20	$19.43	$37.35
8735	3-b	7x30	22	.189″	4.75	22.43	43.35
8737	2-c	7x30	22	.160″	3.85	17.95	34.40
8758	2-d	7x28	20	.165″	3.60	15.90	31.20
8759	2-c	7x28	20	.185″	4.30	19.70	38.00
8738	2-d	Sol.	22	.130″	3.10	12.55	24.30
8739	2-c	Sol.	22	.150″	3.30	15.25	29.00
8732	4-e	7x30	22	.168x .276″	5.35	25.13	48.75

***a**—White conductor tinned copper braid shield; chrome vinyl jacket. **b**—Three conductors shielded, tinned copper braid; chrome vinyl jacket. **c**—Fully shielded, tinned copper spiral wrapped shield; chrome vinyl jacket. **d**—Tinned copper braid shield overall. **e**—Two pair cable, one pair shielded with tinned copper braid; chrome vinyl jacket.

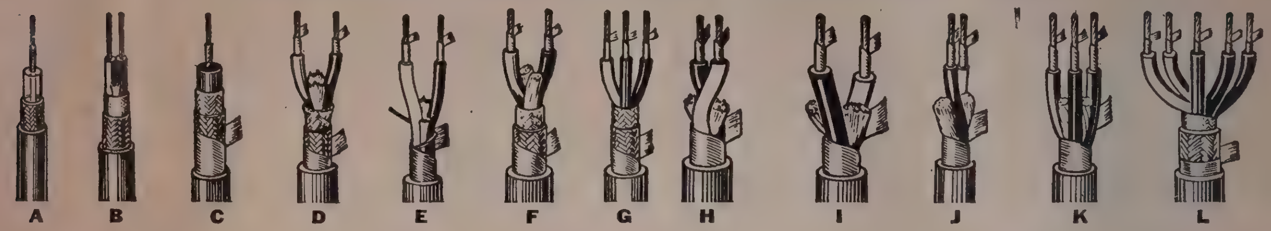
PLASTIC INSULATED TYPE

22 A.W.G. conductors of 7x30 stranded tinned copper. **18 A.W.G.** conductors of 16x30 stranded tinned copper. Single conductors cabled; waterproof; weather-resistant; outer chrome vinyl jacket. Flexible, light weight and small in diameter for use in control, annunciator and communication circuits.

Beld. No.	No. of Conductors 22 A.W.G.	18 A.W.G.	Nom. Diam.	Net Price, Spool of 100 Ft.	500 Ft.	1000 Ft.
8443	3	None	.140″	$2.80	$11.25	$22.15
8444	4	None	.158″	3.40	14.18	27.90
8445	5	None	.170″	4.00	17.70	34.80
8446	4	2	.212″	5.85	27.30	53.70
8447	5	2	.230″	6.45	30.50	60.00
8448	6	2	.235″	6.90	33.38	65.70
8449	7	2	.245″	7.60	36.60	72.15

Belden Wire and Cable

MICROPHONE AND MULTIPLE CONDUCTOR CABLE



MICROPHONE CABLES

NO. 8411 PLASTIC (FIG. A)

For high impedance lapel mikes and hi-fi cables. **25 A.W.G.** 3x33 copper and 4x33 copper coated steel stranded tinned conductor; cellulose yarn braid; polyethylene insulation; tinned copper braid shield; chrome vinyl plastic jacket. .144″ nominal diameter. **Nominal Capacitance:** 34 μμf/ft.

15′ Coiled and Cartoned—Net **$0.68** **25′ Same Pack**—Net **$1.05**
50′ Coiled and Cartoned—Net **1.80** **100′ Spool**—Net..... **3.30**
500′ Spool—Net.. **14.25**

NO. 8401 PLASTIC (FIG. A)

Same as No. 8411 above except heavier insulation. .200″ nominal diameter. **Nominal Capacitance:** 25 μμf/ft.

15′ Coiled and Cartoned—Net **$0.90** **25′ Same Pack**—Net. **$1.35**
50′ Coiled and Cartoned—Net **2.45** **100′ Spool**—Net..... **4.60**
500′ Spool—Net.. **21.40**

NO. 8422 PLASTIC (FIG. B)

For all low impedance microphones. **22 A.W.G.** 16x34 stranded tinned copper conductor; polyethylene insulation; two conductors (Black and White) cabled with fillers; rayon braid; tinned copper braid shield; chrome vinyl plastic jacket. .231″ nominal diameter. **Nominal Capacitance:** 32 μμf/ft. between one conductor and remaining conductor that is connected to shield.

15′ Coiled and Cartoned—Net **$1.15** **25′ Same Pack**—Net. **$1.90**
50′ Coiled and Cartoned—Net **3.40** **100′ Spool**—Net..... **6.55**
500′ Spool—Net.. **30.75**

NO. 8410 RUBBER (FIG. C)

For crystal, ribbon and other high impedance microphones. **25 A.W.G.** 3x33 copper and 4x33 copper coated steel stranded tinned copper conductor; cellulose yarn braid; rubber insulation; rayon braid; tinned copper braid shield; rayon wrap; silver gray rubber jacket. .245″ nominal diameter. **Nominal Capacitance:** 33 μμf/ft.

15′ Coiled and Cartoned—Net **$1.45** **25′ Same Pack**—Net. **$2.20**
50′ Coiled and Cartoned—Net **4.05** **100′ Spool**—Net..... **7.90**
500′ Spool—Net.. **38.40**

NO. 8412 RUBBER (FIG. D)

For all low impedance microphones. **20 A.W.G.** 26x34 stranded tinned copper conductor; cotton wrap; rubber insulation. Two conductors (Black and White) cabled with fillers; rayon braid; tinned copper braid shield; cotton wrap; silver gray rubber jacket. .268″ nominal diameter. **Nominal Capacitance:** 68 μμf/ft. between one conductor and remaining conductor that is connected to shield.

15′ Coiled and Cartoned—Net **$1.55** **25′ Same Pack**—Net. **$2.50**
50′ Coiled and Cartoned—Net **4.50** **100′ Spool**—Net..... **8.80**
500′ Spool—Net.. **41.65**

NO. 8414 RUBBER (FIG. E)

For hand and desk type microphones where exceptional limpness is required. **20 A.W.G.** 26x34 stranded tinned copper conductors; cotton wrap; rubber insulation; two conductors (Black and White) cabled with fillers; spiraled stranded tinned copper Drain wire; conductive textile served shield; silver gray rubber jacket. .256″ nominal diameter.

50′ Coiled and Cartoned—Net **$3.55** **500′ Spool**—Net... **$31.75**

NO. 8428 RUBBER (FIG. F)

Heavy-duty studio cable. **18 A.W.G.** 41x34 stranded tinned copper conductor; cotton wrap; rubber insulation; two conductors (Black and White) cabled with filler; rayon braid; tinned copper braid shield; cotton wrap; silver gray rubber jacket. .295″ nominal diameter. **Nominal Capacitance:** 80 μμf/ft. between one conductor and remaining conductor that is connected to shield.

15′ Coiled and Cartoned—Net **$1.85** **25′ Same Pack**—Net **$3.05**
50′ Coiled and Cartoned—Net **5.80** **100′ Spool**—Net..... **11.25**
500′ Spool—Net.. **53.85**

NO. 8423 RUBBER (FIG. G)

For all low impedance microphones. **20 A.W.G.** 26x34 stranded tinned copper conductor; cotton wrap; .020″ rubber insulation; three conductors (Black, Red, White) cabled; rayon braid; tinned copper braid shield; cotton wrap; silver gray rubber jacket. .277″ nominal diameter. **Nominal Capacitance:** 85 μμf/ft. between one conductor and remaining conductors connected to shield.

15′ Coiled and Cartoned—Net **$1.65** **50′ Same Pack**—Net. **$5.10**
100′ Spool—Net............ **9.75** **250′ Spool**—Net..... **24.15**
500′ Spool—Net............ **48.15** **1000′ Spool**—Net.... **94.50**

NO. 8424 RUBBER

For all low impedance microphones. **20 A.W.G.** 26x34 stranded tinned copper conductor; cotton wrap; .020″ rubber insulation; four conductors (Black, Green, Red, White) cabled; rayon braid; tinned copper braid shield; cotton wrap; silver gray rubber jacket. .295″ nominal diameter. **Nominal Capacitance:** 95 μμf/ft. between one conductor and remaining conductors connected to shield.

15′ Coiled and Cartoned—Net **$1.95** **50′ Same Pack**—Net **$6.00**
100′ Spool—Net.............. **11.70** **250′ Spool**—Net..... **28.80**
500′ Spool—Net.............. **56.10** **1000′ Spool**—Net... **112.75**

MULTIPLE CONDUCTOR CABLE
RUBBER JACKETED PORTABLE CORD

NO. 8478 (FIG. H)

Underwriters' Type SJ. **18 A.W.G.** 41x34 stranded bare copper conductor; cotton wrap; 1/32″ rubber insulation. Two conductors (Black and White) cabled with fillers; cotton wrap; 1/32″ silver gray rubber jacket. .299″ nominal diameter.

25′ Coiled and Cartoned—Net **$1.75** **50′ Same Pack**—Net **$3.00**
Spool of 100′, Net **$5.80; 250′**—Net **$13.65; 1000′**—Net.... **55.25**

NO. 8472 (FIG. I)

Underwriters' Type SJ. **16 A.W.G.** 65x34 stranded bare copper conductor; cotton wrap; 1/32″ rubber insulation; two conductors (Black and White) cabled with fillers; cotton wrap; 1/32″ silver gray rubber jacket. .325″ nominal diameter.

25′ Coiled and Cartoned—Net.......................... **$ 2.10**
Spool of 50′—Net **$3.90; 100′**— Net **$7.20; 250′**—Net..... **17.38**

NO. 8452 (FIG. J)

Underwriters' Type SV. **18 A.W.G.** 41x34 stranded bare copper conductor; cotton wrap; 1/64″ rubber insulation; two conductors (Black and White) cabled with fillers; cotton wrap; 1/32″ silver gray rubber jacket. Nominal Diameter .245″.

Net Coiled and Cartoned: 15′—$0.98; 25′—$1.45; 50′—$ 2.65
100′ Spool—Net........ **$ 4.95** **250′ Spool**—Net........ **11.70**
500′ Spool—Net........ **23.10** **1000′ Spool**—Net....... **45.25**

NO. 8453 (FIG. K)

18 A.W.G. 41x34 stranded bare copper conductor; cotton wrap; 1/64″ rubber insulation; three conductors (Black, Green, White) cabled with fillers; cotton wrap; 1/32″ silver gray rubber jacket. .265″ nominal diameter.

15′ Coiled and Cartoned—Net **$1.10** **50′ Same Pack**—Net **$3.15**
100′ Spool—Net............. **6.10** **500′ Spool**—Net.... **28.33**

NO. 8454

Same as No. 8453 except four conductors (Black, Brown, Red and White). .265″ nominal diameter.

15′ Coiled and Cartoned—Net **$1.35** **50′ Same Pack**—Net **$3.85**
Spool of 100′—Net **$7.45; 500′**—Net **$34.75; 1000′**—Net **71.70**

NO. 8455

22 A.W.G. 16x34 stranded bare copper conductor; cotton wrap; 1/64″ rubber insulation. **18 A.W.G.** 41x34 stranded bare copper conductor; cotton wrap; 1/64″ rubber insulation. Five conductors cabled with filler: three **22 A.W.G.,** Brown, Green, White; two **18 A.W.G.,** Black, Red. Cotton wrap; 1/32″ silver gray rubber jacket. .280″ nominal diameter.

15′ Coiled and Cartoned—Net **$1.45** **50′ Same Pack**—Net **$4.20**
100′ Spool—Net............. **8.10** **250′ Spool**—Net..... **19.82**

SHIELDED CABLE (FIG. L)

NO. 8425 FIVE-CONDUCTOR

Interconnecting power cable for all electronic uses. **20 A.W.G.** 26x34 stranded tinned copper conductor; cotton wrap; .020″ rubber insulation; five conductors cabled (Black, Blue, Green, Red, White); rayon braid; tinned copper braid shield; cotton wrap; .040″ silver gray rubber jacket. .323″ nominal diameter.

15′ Coiled and Cartoned—Net.......................... **$ 2.35**
Spool of 50′—Net **$7.20; 100′**—Net **$13.65; 250′**—Net.... **33.00**

NO. 8426 SIX-CONDUCTOR

Same as No. 8425 except six conductors (Black, Blue, Brown, Green, Red, White). .349″ nominal diameter.

15′ Coiled and Cartoned—Net.......................... **$ 3.35**
Spool of 50′—Net **$8.75; 100′**—Net **$16.95; 250′**—Net.... **40.65**

NO. 8427 SEVEN-CONDUCTOR

Same as No. 8425 except seven conductors (Black, Blue, Brown, Green, Red, White, Yellow). .360″ nominal diameter.

15′ Coiled and Cartoned—Net.......................... **$ 3.00**
Spool of 50′—Net **$9.40; 100′**—Net **$18.15; 250′**—Net.... **43.65**

NO. 8431 PHONO PICKUP ARM CABLE

Extreme flexibility, limpness and high dielectric breakdown **24 A.W.G.** 16x36 stranded tinned copper conductor; .015″ rubber insulation; tinned copper braid shield; brown fine cotton braid. .095″ nominal diameter.

Card of 10′—Net............ **$0.50** **Card of 15′**—Net... **$ 0.68**
25′ Coiled and Cartoned—Net **1.10** **Spool of 100′**—Net. **3.30**
Spool of 500′—Net.. **15.85**

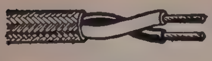
TINNED COPPER BUS BAR WIRES

Belden No.	Net Prices		
	A.W.G.	100′ Coiled and Cartoned	100′ Spool*
8011	12	$2.25	....
8012	14	1.65	....
8013	16	1.20	....
8019	18	....	$1.05
8020	20	....	.95
8021	22	....	.85

*5 Spools in a carton.

Belden Wire and Cable

P.A. AND SOUND SYSTEM CABLES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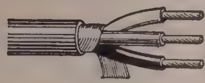
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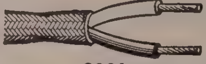
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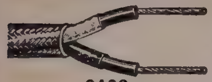
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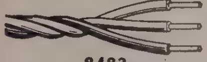
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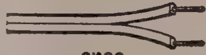

8782

NO. 8789

18 A.W.G. 7x26 stranded tinned copper conductor; .020″ vinyl plastic insulation; two conductors cabled (Black and White). Tinned copper braid shield. .205″ nominal diameter.
Spool of 100′—Net **$5.10; 500′**—Net **$23.18; 1000′**—Net **$45.60**

NO. 8790

For P.A. and intercom systems in schools, hospitals and institutions. **18 A.W.G.** 7x26 stranded tinned copper conductor; .020″ vinyl plastic insulation; two conductors cabled (Red and White); tinned copper spiral wrapped shield; .025″ tubed chrome plastic jacket; .225″ nominal diameter.
Spool of 100′—Net **$5.35; 500′**—Net **$24.63; 1000′**—Net **$49.25**

NO. 8791

18 A.W.G. 7x26 stranded tinned copper conductor; .020″ vinyl plastic insulation; three conductors cabled (Black, Red, White); tinned copper spiral wrapped shield; .025″ tubed chrome vinyl plastic jacket; .230″ nominal diameter.
Spool of 100′—Net **$6.60; 500′**—Net **$31.38; 1000′**—Net **$61.25**

NO. 8209

For long runs in extension speaker installations. **18 A.W.G.** 16x30 stranded trimmed copper conductor; low-loss rubber insulation; two conductors (Red and White) cabled; paper wrap; tinned copper braid shield; white cotton braid treated with weather-resistant compound. .258″ nominal diameter.
15′ Coiled and Cartoned—Net **$1.15** **50′ Same Pack**—Net **$3.25**
Spool of 100′—Net **$6.00; 500′**—Net **$28.05; 1000′**—Net **$55.20**

NO. 8208

For extension speakers. **18 A.W.G.** 16x30 stranded tinned copper conductor; low-loss rubber insulation; two conductors (Red and White) cabled; paper wrap; tinned copper braid shield; .020″ tubed chrome vinyl plastic jacket; .260″ nominal diameter.
15′ Coiled and Cartoned—Net **$1.20** **50′ Same Pack**—Net **$3.45**
Spool of 100′—Net **$6.38; 500′**—Net **$29.70; 1000′**—Net **$57.75**

NO. 8799

P.A. cable. Amplifier to speaker broadcast control cable. **18 A.W.G.** Bare copper conductor, solid, enameled; cotton wrap; cotton braid waxed; two conductors (Black and White) cabled. Tinned copper braid shield. .165″ nominal diameter.
Spool of 100′—Net **$4.90; 500′**—Net **$22.43; 1000′**—Net **$44.40**

NO. 8432

20 A.W.G. 10x30 stranded tinned copper conductor; .015″ rubber insulation; cotton braid; lacquer coating. Two conductors (Black and Red) cabled; tinned copper braid shield. .225″ nominal diameter.
Spool of 100′—Net **$6.40; 500′**—Net **$30.15; 1000′**—Net **$59.25**

NO. 8204

For extension speakers. **18 A.W.G.** 16x30 stranded tinned copper conductor; low-loss rubber insulation; two conductors (Red and White) cabled; white cotton braid treated with weather-resistant compound. .220″ nominal diameter.
25′ Coiled and Cartoned—Net............................**$1.20**
Spool of 100′—Net **$3.75; 500′**—Net **$17.00; 1000′**—Net **$34.00**

NO. 8205

For extension speaker and control circuits. **22 A.W.G.** 7x30 stranded tinned copper conductor; rubber insulation; two conductors (Black and Red) cabled; black cotton braid, treated with weather-resistant compound. .165″ nominal diameter.
25′ Coiled and Cartoned—Net............................**$0.90**
Spool of 100′—Net **$2.85; 500′**—Net **$12.15; 1000′**—Net **$24.30**

NO. 8486

19 A.W.G. Bare copper conductor, solid; .015″ vinyl plastic insulation; two conductors (Brown and Tan) cabled; .025″ tubed chrome vinyl plastic jacket; .162″ nominal diameter.
1000′ Spool—Net......................................**$24.00**

NO. 8482

Same as No. 8486 except without outer jacket. .115″ nom. diam.
1000′ Spool—Net......................................**$14.70**

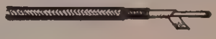
NO. 8483

Same as 8482 except three-conductor (Brown, Gray, Tan). .132″ nominal diameter.
1000′ Spool—Net......................................**$20.50**

NO. 8782 JUKE BOX CABLE

Juke box speaker cable. **24 A.W.G.** 7x32 stranded—1 bare copper conductor and 1 tinned copper conductor; 2 conductors parallel, chrome vinyl plastic insulation. .058″ x .115″ nominal diameter.
Spool of 500′—Net......**$5.88** **Spool of 1000′**—Net....**$11.10**

HOOK-UP AND LEAD WIRES

8941


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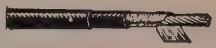

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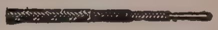

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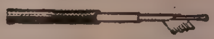

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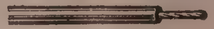

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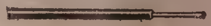

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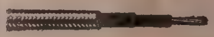


CELLULOSE BRAID LACQUERED HOOK-UP AND LEAD WIRE

Heavy cellulose acetate yarn wrap; cellulose acetate yarn braid; fungus and flame resistant lacquer coating. **Colors: 8941, 8943**—Black, Blue, Brown, Green, Orange, Red, White, Yellow; **8945** and **8947**—All except Brown and Orange; **8942**—Black, Green, Red; **8938**—Black, Red.

Belden No.	A.W.G.	Wire	Nom. Diam.	Net Prices		
				25 Ft.*	100 Ft.†	1000′ Spool
8941	20	Solid	.072″	$0.47	$1.50	$12.00
8945	18	Solid	.080″	.51	1.80	14.40
8943	20	10x30	.076″	.48	1.65	12.85
8947	18	16x30	.087″	.56	1.95	15.85
8942	16	26x30	.099″	....	2.35	19.60
8938	14	41x30	.115″	....	2.95	....

R-F PUSH-BACK WIRE

Cellulose Acetate braid waxed (two braids). Used on R-F circuits where low-loss properties are required. Black, Blue, Green, Red, all with White tracer.

8841	20	Solid	.067″	....	$1.90	$15.40
8839	20	10x30	.072″	....	2.05	16.90
8844	18	16x30	.092″	....	2.25	19.15

RUBBER INSULATED PUSH-BACK WIRE

General-use hook-up wire and leads for transformers, speakers and controls in audio and power circuits. **Colors:** Black, Blue, Green, Red, Yellow.

8837	20	Solid	.075″	....	$1.80	$14.25
8838	20	10x30	.081″	....	1.85	15.00
8833	18	16x30	.125″	....	2.40	20.10

THERMOPLASTIC INSULATED NO. 8918

18 A.W.G. 16x30 stranded tinned copper; .031 vinyl thermoplastic insulation. .112″ nominal diameter. **Colors:** Black, Blue, Green, Red, Yellow.
250′ Spool—Net.......**$3.75** **1000′ Spool**—Net.....**$13.95**

NEW TYPE MW HOOK-UP WIRES (FORMERLY SRIR—JAN-C-76)

Thermoplastic insulation; 1000 volt; 80° C. MIL-W-76A. **Colors:** Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White.

Belden No.	Type	A.W.G.	Net Prices		
			25 Ft.*	100 Ft.†	1000′ Spool
8530	MW-C-22-(1)-U	22	$0.27	$0.85	$ 5.65
8529	MW-C-20-(1)-U	20	.32	.98	6.60
8524	MW-C-22-(7)-U	22	.33	.98	6.75
8523	MW-C-20-(7)-U	20	.38	1.17	8.40
8522	MW-C-18-(16)-U	18	.44	1.41	10.95

*Coiled and Cartoned. †Spooled and Cartoned.

SHIELDED HOOK-UP WIRE NO. 8885

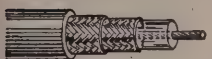
Used in circuits where shielded grid return is required and to shield a circuit conductor from stray fields. **20 A.W.G.** 10x30 stranded tinned copper; .015″ rubber insulation; cellulose acetate yarn braid; fungus and flame-resistant lacquer coating; tinned copper braid shield. .117″ nominal diameter.
15′ Coiled and Cartoned—Net **$0.60; 25′ Same Pack**—Net **$0.98**
100′ Spooled and Cartoned—Net **$3.15; 500′ Spool**—Net **$14.50**

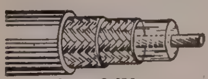
SHIELDING AND BONDING CABLE

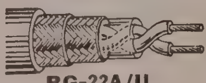
Belden No.	Tinned Cop. Braid	Nominal I.D.	Net Prices		
			10′*	50′**	250′ Spool
8660	96x34	1/8″	$0.48	$1.90	$ 7.20
8668	120x34	11/64″	.65	2.40	10.00
8661	192x34	3/8″	.74	2.80	11.70
8669	336x34	1/2″	1.28	5.85	25.95
8662	576x34	25/32″	1.75	8.35	37.90

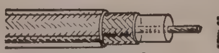
*Coiled and Cartoned. **Spooled and Cartoned.

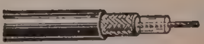
RGU TRANSMISSION LINE CABLES

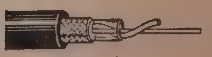

RG-5A/U


RG-9/U


RG-22A/U


RG-54A/U


RG-58A/U


RG-62/U

Belden No.	RG Type	A.W.G.	Jacket *	Net Price, Spool of		
				100 Ft.	500 Ft.	1000 Ft.
8264	RG-5A/U	16	1	$22.80	$112.50	$222.00
8237	RG-8/U	13	2	13.20	64.65	†125.55
8242	RG-9/U	13	1	28.65	141.95	†282.40
8238	RG-11/U	18	2	12.30	59.40	†115.05
8260	RG-22A/U	2–18	1	26.00	127.75	†252.50
8244	RG-29/U	20	3	6.05	27.75	52.50

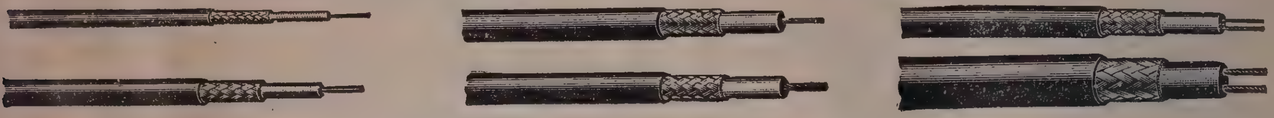
*Jacket—**1**—Gray noncontaminating plastic; **2**—Black vinyl plastic; **3**—Clear polyethylene plastic.

Belden No.	RG Type	A.W.G.	Jacket *	Net Price, Spool of		
				100 Ft.	500 Ft.	1000 Ft.
8239	RG-54A/U	18	3	$ 8.10	$ 39.50	$ 75.00
8245	RG-55/U	20	3	10.10	50.25	97.50
8259	RG-58A/U	20	2	5.65	26.63	50.25
8240	RG-58/U	20	2	5.35	25.88	51.75
8241	RG-59/U	22	2	6.15	29.05	58.10
8254	RG-62/U	22	2	7.50	35.05	60.40
8257	RG-71/U	22	3	12.00	58.70	109.90

†Furnished on returnable reel.

RG Cables by AMPHENOL

POLYETHYLENE DIELECTRIC RG TYPE COAXIAL CABLES



Strict end-to-end uniformity of these cables is accomplished by precision plastic extrusion, accurate temperature control, constant process inspection and micrometer gauging standards. These cables are fully approved and produced to rigid military specifications. The maximum dielectric qualities of polyethylene are fully utilized. The banding radius is ten times the outside cable diameter and is maintained over a wide range of temperatures. Low moisture absorption qualities.

Type of Conductor—No suffix to figures in the "Wire Size" column denotes regular copper. CW, Copperweld; S, silvered copper; T, tinned copper; N, nichrome.

MILITARY APPROVED

Amphenol polyethylene and Teflon cables are fully approved and produced to rigid military specifications. Proper size, quality and centering of inner conductors, absence of voids in, and accuracy of outside diameter of the dielectric; proper size and quality of braided shielding; close centering of outer jacket; correct overall diameter and proper cable markings are other features which insure utmost efficiency and dependability. All cable checked and accompanied by notarized affidavit.

Amphenol Number	AN Number	Nom. Imped.	Max. Volts RMS	Wire Size	Dielectric O. D.	Cable O. D.	NET PRICES PER COIL			
							100-ft.**	500 ft.	1000 ft.	Other Coil Lengths Net per Coil Length
21-001	RG-5/U	52.5	3000	16	.185	.332	$ 14.28	$ 69.37	$ 134.55	...
21-271	RG-5A/U	50	3000	16S	.181	.328	23.33	115.83	228.34	...
21-002	RG-6/U	76	2700	21CW	.185	.332	20.00	96.66	186.67	...
21-003	RG-7/U	97	1000	19	.250†	.370	14.94	72.30	139.80	...
21-004	RG-8/U	52	4000	7/21	.285	.405	13.50	65.83	128.34	$ 318.72 per 2500 ft.
21-005	RG-9/U	51	4000	7/21S	.280	.420	29.17	144.17	286.67	...
21-231	RG-9A/U	51	4000	7/21S	.280	.420	39.17	193.33	383.33	...
21-006	RG-10/U	52	4000	7/21	.285	.405	25.36	124.50	...	366.30 per 1500 ft.
21-007	RG-11/U	75	4000	7/26T	.285	.405	12.67	61.67	121.66	300.00 per 2500 ft.
21-008	RG-12/U	75	4000	7/26T	.285	.405	25.00	123.33	...	365.00 per 1500 ft.
21-009	RG-13/U	74	4000	7/26T	.280	.420	21.67	105.00	203.33	...
21-010	RG-14/U	52	5500	10	.370	.545	32.01	...	310.80	...
21-011	RG-15/U	76	5000	15CW	.370	.545	33.36	...	328.80	...
21-013	RG-17/U	52	11000	.188	.680	.870	62.86	311.66	#619.80	#1221.90 per 2000 ft.
21-014	RG-18/U	52	11000	.188	.680	.870	84.78	420.83	#815.50	#1562.16 per 2000 ft.
21-015	RG-19/U	52	14000	.250	.910	1.120	97.15	#481.20	†953.40	...
21-016	RG-20/U	52	14000	.250	.910	1.120	131.59	#649.72	†1281.44	...
21-017	RG-21/U	53	2700	16N	.185	.332	24.16	118.42	232.05	...
21-038	RG-22/U	95	1000	2-7/.0152	.285	.405	16.41	79.95	155.40	...
21-148	RG-22A/U	95	1000	2-7/.0152	.285	.420	25.00	122.50	241.67	...
21-018	RG-29/U	53.5	1900	20	.116	.184	5.83	28.33	55.00	270.85 per 5000 ft.
21-019	RG-34/U	71	5200	7/21	.455	.625	29.04	...	281.25	...
21-020	RG-35/U	71	10000	9	.680	.870	86.46	428.02	...	#1270.80 per 1500 ft.
21-021	RG-42/U	78	2700	21N	.196	.342	27.33	133.33	261.67	...
21-022	RG-54A/U	58	3000	7/.0152	.178	.250	8.17	38.33	75.00	146.66 per 2000 ft.
21-023	RG-55/U	53.5	1900	20	116	.206	10.25	50.00	98.66	386.68 per 4000 ft.
21-039	RG-57/U	95	3000	2-7/21	.472	.625	35.72	...	347.70	...
21-024	RG-58/U	53.5	1900	20	.116	.195	5.83	28.33	55.33	161.49 per 3000 ft.
21-199	RG-58A/U	50	1900	19/.0068	.116	.195	6.00	29.16	55.33	164.25 per 3000 ft.
21-025	RG-59/U	73	2300	22CW	.146	.242	6.67	31.67	61.67	360.00 per 6000 ft.
21-026	RG-62/U	.93	750	22CW	.146†	.242	8.05	38.17	72.15	409.50 per 6000 ft.
21-027	RG-63/U	125	1000	22CW	.285†	.405	14.83	72.91	143.33	...
21-029	RG-71/U	93	750	22CW	.146†	.250	12.50	61.66	121.67	360.00 per 3000 ft.
21-041	RG-74/U	52	5500	10	.370	.545	47.17	...	460.00	...
21-070	RG-79/U	125	1000	22CW	.285†	.405	26.33	130.00	256.67	...
21-180	RG-83/U	35	2000	10	.240	.405	18.33	89.16	175.00	...
21-253	RG-89/U	125	1000	22CW	.285†	.632	36.16	...	358.50	...
21-261	RG-108/U	76	1000	2-7/28	.073ea.	.235	8.71	41.47	78.30	221.85 per 3000 ft.
21-255	RG-111/U	95	1000	2-7/.0152	.285	.420	42.50	209.16	413.33	...
21-125	...	71	10000	9	.680	.870	58.17	285.82	#559.80	#1096.50 per 2000 ft.
21-440	RG-114/U	185	1000	33CW	.285†	.405	17.13	83.40	162.00	...
21-441	RG-122/U	50	1900	27/36T	.096	.160	8.22	39.00	73.80	345.00 per 5000 ft.
21-442*	RG-125/U	150	1000	26CW	.460†	.600	30.99	...	301.20	...
21-436	RG-130/U	95	3000	2-7/21	.472	.625	41.83	...	410.00	...
21-437	RG-131/U	95	3000	2-7/21	.472	.625	56.17	...	555.00	...
21-525	RG-133/U	95	1000	21	.285	.405	18.17	84.16	161.66	...

*Low temperature black jacket; Signal Corps type. †Semi-solid dielectric. #Returnable reel, weight 220 lbs. Net $50.00
**Additional charge of 10% for quantities less than 100 ft.

LOW CAPACITANCE MICROPHONE CABLE

A small diameter, unusually low capacitance cable with polyethylene dielectric vinyl jacket. For use by PA servicemen, sound system manufacturers and in a complete range of related uses. .155″ diameter jacket; .080″ diameter dielectric with a capacitance of 35 mmf per foot.

Amphenol No. 21-146 Microphone Cable—

100-ft. coil. Net Each	$7.04
500-ft. coil. Net Each	32.02
1000-ft. coil. Net Each	59.70
5000-ft. coil. Net Each	276.00

TEFLON DIELECTRIC UHF CABLE

The new flourine dielectric, teflon, operates without difficulty at temperatures from −100° F. to +500° F., thereby extending the range of solid dielectric radio frequency cable far beyond the previous coverage. Teflon is an outstanding dielectric not only because of its efficiency at high temperatures, but also because of its extremely low loss and high voltage breakdown. Covering the Teflon are one or two silver coated or plain copper shield braids and two wrappings of Teflon tape. The jacket consists of fibreglass braids impregnated with silicone varnish which is oven baked to provide maximum moisture resistance.

Amphenol No.	AN Number	Nom. Imp, Ohms	O. D. of Armor	Jacket Diam.	Type Jacket*	Shields#		O. D. of Dielectric	Inner Cond.	V.P. %	Cap. μμfd/ft.	Max. Op. Volts	Net Per Foot
						1st	2nd						
21-250	RG-87A/U	50	...	.425″	FSI	S	S	.280″	7/20S	69.5	29	3000	$ 3.41
21-378	RG-116/U	50	.475	.425″	FSI	S	S	.280″	7/20S	69.5	29	3000	3.75
21-377	RG-117/U	50	...	.730″	FSI	C	...	.620″	.188	69.5	29	6000	9.64
21-374	RG-118/U	50	.780	.730″	FSI	C	...	.620″	.188	69.5	29	6000	11.42
21-398	RG-119/U	50	...	.465″	FSI	C	C	.328″	10 bare	69.5	29	4000	4.75
21-399	RG-120/U	50	.515	.465″	FSI	C	C	.328″	10 bare	69.5	29	4000	5.00
21-443	RG-126/U	50	...	.275″	FSI	K	...	.180″	7/24K	69.0	29	2000	2.59
21-388	RG-143/U	50	...	.332″	FSI	S	S	.185″	15S	69.5	29	2000	2.83
21-391	RG-144/U	72	...	.405″	FSI	S	...	.280″	7/25S	69.5	21	3000	3.49
21-385	RG-142/U	50	...	.206″	FSI	S	S	.116″	19S	69.5	29	1500	2.02
21-382	RG-141/U	50	...	.195″	FSI	S	...	.116″	19S	69.5	29	1500	1.87
21-379	RG-140/U	73	...	.241″	FSI	S	...	.146″	21S	69.5	21	1700	2.23

*Fibreglass Silicone Impregnated. #**S**—Silver coated copper; **C**—Copper; **K**—Karma wire.

Wire and Cable, Lag Screws

ALPHA WIRE AND CABLE

HOOK-UP WIRE

TINNED COPPER BRAIDED SHIELDING

PLASTIC HOOK-UP WIRE—SPEC. MIL-W-76A
(SUPERSEDING JAN-C-76)

Alpha No.	*MIL-W-76A Designation	Nom. OD	Wire Desc.	Stock Colors	Lgth. Feet	Net Each
1550	MW-C 24(7)U	.059	A	1-22	1000	$ 8.40
1550Q	MW-C 24(7)U	.059	A	1-22	100	1.00
1551	MW-C 22(7)U	.064	A	1-20	1000	8.70
1552	MW-C 22(7)U	.064	A	1-30	100	1.05
1553	MW-C 20(10)U	.073	A	1-30	1000	11.10
1554	MW-C 20(10)U	.073	A	1-30	100	1.30
1555	MW-C 18(16)U	.084	A	1-22	1000	13.80
1556	MW-C 18(16)U	.084	A	1-22	100	1.50
1557	MW-C 16(26)U	.095	A	1-22	1000	21.45
1558	MW-C 16(26)U	.095	A	1-22	100	2.35
1559	MW-C 14(41)U	.110	A	1-22	1000	31.80
1559Q	MW-C 14(41)U	.110	A	1-22	100	3.40
1560	MW-C 12(65)U	.125	A	1-22	1000	55.65
1560Q	MW-C 12(65)U	.125	A	1-22	100	5.70
1561	MW-C 22(1)U	.060	A	1-22	1000	7.15
1562	MW-C 22(1)U	.060	A	1-22	100	.80
1563	MW-C 20(1)U	.066	A	1-22	1000	9.10
1564	MW-C 20(1)U	.066	A	1-22	100	1.05
1565	MW-C 18(1)U	.074	A	1-10	1000	11.65
1566	MW-C 18(1)U	.074	A	1-10	100	1.30
1685	LW-C 30(7)U	.033	B	1-6	1000	8.40
1685Q	LW-C 30(7)U	.033	B	1-6	100	.99
1686	LW-C 28(7)U	.035	B	1-6	1000	8.25
1686Q	LW-C 28(7)U	.035	B	1-6	100	.98
1687	LW-C 26(7)U	.039	B	1-6	1000	8.10
1687Q	LW-C 26(7)U	.039	B	1-6	100	.96
1590	MW-C 22(7)B	.080	C	1-10, 14-22	1000	20.70
1590Q	MW-C 22(7)B	.080	C	1-10, 14-22	100	2.25
1591	MW-C 20(10)B	.090	C	1-10, 14-22	1000	23.05
1591Q	MW-C 20(10)B	.090	C	1-10, 14-22	100	2.50
1592	MW-C 18(16)B	.100	C	1-10, 14-22	1000	28.65
1592Q	MW-C 18(16)B	.100	C	1-10, 14-22	100	3.00
1593	MW-C 16(26)B	.115	C	1-10, 14-22	1000	38.95
1593Q	MW-C 16(26)B	.115	C	1-10, 14-22	100	4.15
1594	MW-C 14(41)B	.125	C	1, 14-22	1000	54.10
1594Q	MW-C 14(41)B	.125	C	1, 14-22	100	5.70
1595	MW-C 12(65)B	.140	C	1, 14-22	1000	93.85
1595Q	MW-C 12(65)B	.140	C	1, 14-22	100	9.75
1504	MW-C 22(7)J	.075	D	1-10, 14-22	1000	14.80
1504Q	MW-C 22(7)J	.075	D	1-10, 14-22	100	1.65
1505	MW-C 20(10)J	.090	D	1-10, 14-22	1000	16.05
1505Q	MW-C 20(10)J	.090	D	1-10, 14-22	100	1.80
1506	MW-C 18(16)J	.103	D	1-10, 14-22	1000	21.45
1506Q	MW-C 18(16)J	.103	D	1-10, 14-22	100	2.40
1507	MW-C 16(26)J	.115	D	1-10, 14-22	1000	29.40
1507Q	MW-C 16(26)J	.115	D	1-10, 14-22	100	3.15
1508	MW-C 14(41)J	.115	D	1-6	1000	34.60
1508Q	MW-C 14(41)J	.115	D	1-6	100	4.05
1509	MW-C 12(65)J	.140	D	1-3	1000	50.85
1509Q	MW-C 12(65)J	.140	D	1-3	100	5.48

HOOK-UP WIRE DESCRIPTIONS

A. Single conductor stranded or solid tinned copper, .016″ thermoplastic insulation. Rated 1000 volts. Nos. 1561-1566 are solid, all others are stranded. Superseding SRIR.

B. Single conductor stranded tinned copper, light wall .010″ thermoplastic insulation. Rated 300 volts.

C. Single conductor stranded tinned copper, .016″ thermoplastic insulation, glass braid overall. Rated 1000 volts.

D. Single conductor stranded tinned copper, .016″ thermoplastic insulation. Nylon jacket overall. Superseding WL-Nylon Jacket. Rated 1000 volts.

*MW indicates medium wall; LW indicates light wall. First number indicates AWG wire size. Number in parentheses indicates number of strands.

TINNED COPPER SHIELDING

Very fine soft annealed 36 AWG tinned copper wires braided and rolled flat. Highly flexible. In 50-ft. spools.

Alpha No.	Approx. ID	Net Per 1000 Ft.	Alpha No.	Approx. ID	Net Per 50′ Spool
1221	.025″	$27.00	1231	¼″	$2.50
1222	.035″	27.55	1232	⅜″	4.05
1223	3/64″	29.20	1233/2	½″	5.35
1229	⅛″	*1.60	1233	⅝″	5.70
1230	3/16″	*2.05			

*Per 50-ft. Spool.

BUS BAR (ROUND)—2-FT. LENGTHS

Packed 100 2-ft. lengths per package.

Alpha No.	Conductor Size	Circular Mil Area	Nominal OD	Net Per Package
2082	14AWG	4107.0	.065″	$4.80
2080	12AWG	6350.0	.082″	5.85
2078	10AWG	10380.0	.103″	8.93

COLORS IN STOCK

Single Colors:
1. White
2. Black
3. Red
4. Green
5. Yellow
6. Blue
7. Brown
8. Orange
9. Gray
10. Violet
11. Tan
12. Pink
13. Dark Blue

White and—
14. Black
15. Red
16. Green
17. Yellow
18. Blue
19. Brown
20. Orange
21. Gray
22. Violet

Black and White and—
23. Red
24. Green
25. Yellow
26. Blue
27. Brown
28. Orange
29. Gray
30. Violet

NOTE—Refer to tables for colors in stock. State color wanted when ordering.

SUB-MINIATURE WIRE AND CABLE—HIGH TEMP. 105°C

Single or Multi-conductor stranded tinned copper, 105°C vinyl thermoplastic insulation. When jacketed, .010″ clear vinyl thermoplastic jacket is over the cabled conductors (unshielded) and over the tinned copper shield (shielded). Used wherever a fine hook-up wire is required: Instrumentation, computers, photoelectric circuits, etc. Color code: 1—Black, 2—Red, 3—White, 4—Green. Striped tracers available at 1.13c per foot extra.

UNSHIELDED

Alpha Number	No. and Size Conductors	Cond. Strand	Nom. Ins.	Nom. OD	Net Per 1000 Ft.
2606	2–30	7/38	.010″	.061″	$22.50
3606	3–30	7/38	.010″	.067″	36.00
4606	4–30	7/38	.010″	.075″	43.50
2607	2–28	7/36	.010″	.081″	27.00
3607	3–28	7/36	.010″	.088″	40.50
4607	4–28	7/36	.010″	.097″	52.50

SHIELDED

Alpha Number	No. and Size Conductors	Cond. Strand	Nom. Ins.	Nom. OD	Net Per 1000 Ft.
1332	1–30	7/38	.010″	.055″	$40.50
1334	1–28	7/36	.010″	.059″	38.85
1336	1–26	7/34	.010″	.063″	36.75
1337	1–24	16/36	.016″	.075″	35.65
2337	2–24	16/36	.016″	.118″	45.00
3337	3–24	16/36	.016″	.125″	55.50
4337	4–24	16/36	.016″	.145″	67.50
2334	2–38	7/36	.010″	.138″	48.00
3334	3–28	7/36	.010″	.146″	60.00
4334	4–28	7/36	.010″	.165″	73.50

TINNED COPPER WIRE

Pure electrolytic solid or stranded copper, properly annealed and tinned for quick soldering. For winding of coils, antennas, point-to-point wiring, bus bar, component leads and ground wire.

Alpha No.	Cond. Size	Cond. Strand	Circular Mil Area	Nom. OD	Net Per 1000 Ft.
199	24AWG	7/32	442.47	.025″	$ 4.20
198	22AWG	7/30	703.5	.030″	4.43
197	20AWG	10/30	1005.0	.037″	5.70
196	18AWG	16/30	1608.0	.045″	8.93
195	16AWG	26/30	2613.0	.059″	15.75
193	14AWG	41/30	4120.5	.073″	23.62
192	12AWG	65/30	6532.5	.091″	38.25
299/5	34AWG	Solid	39.75	.006″	3.00
299/4	32AWG	Solid	63.21	.008″	3.08
299/3	30AWG	Solid	100.5	.010″	3.15
299/2	28AWG	Solid	159.8	.013″	3.23
299/1	26AWG	Solid	254.1	.016″	3.60
299	24AWG	Solid	404.0	.020″	3.90
298	22AWG	Solid	642.4	.025″	3.38
297	20AWG	Solid	1022.0	.033″	5.18
296	18AWG	Solid	1642.0	.040″	8.40
295	16AWG	Solid	2583.0	.051″	10.50
286	14AWG	Solid	4107.0	.065″	14.56
289	12AWG	Solid	6530.0	.082″	21.08
292	10AWG	Solid	10380.0	.103″	34.05
292/8	8AWG	Solid	16510.0	.129″	78.00
292/6	6AWG	Solid	26250.0	.162″	117.00

KENWOOD LAG SCREWS

High quality square head lag screws for antenna installation and other radio, television and household or shop needs. Heavily zinc plated for rust resistance. Sharp, true threads for easy turning even in the hardest of woods. Square head fits standard wrenches usually carried by servicemen. State size and quantity wanted when ordering.

Length	Net for 10		
	¼″	5/16″	⅜″
1¼″	48c	60c	
1½″	52c	64c	80c
2″	56c		
2½″	59c		
3″	67c	83c	$1.00

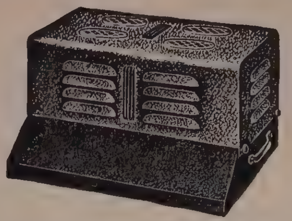
MAKE US YOUR HEADQUARTERS FOR ALL WIRING AND HARDWARE NEEDS. OUR STOCKS ARE COMPLETE. IF YOU DO NOT FIND IT LISTED HEREIN, WRITE US ABOUT IT.

Chassis and Cabinets by BUD

BUD STREAMLINED AMPLIFIER FOUNDATIONS

An attractive unit for housing amplifiers and similar apparatus. Each foundation consists of a standard chassis on which is mounted a removable top cover. Chromium trim and handles with louvred sides and ends. All chassis are 3″ high and complete units are 9″ high. Easy grip handles are attached to chassis except CA-1750 which is placed on top. Finished in Black or Grey Wrinkle Enamel. Specify color when ordering.

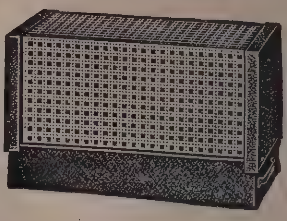
Bud No.	Width	Depth	Wt. Lbs.	Net Each
CA-1750	10 1/16″	5″	6	$3.90
CA-1751	12 1/16″	7″	7	5.06
CA-1752	17 1/16″	7″	10	5.50
CA-1753	17 1/16″	10″	11	6.33



BUD SLOPING PANEL AMPLIFIER FOUNDATIONS

Each unit consists of a 4″ sloping front chassis on which is mounted a removable top cover. Cover is finished in Grey Wrinkle Enamel with Chromium trim, chassis in Black Wrinkle. All chassis are 3½″ high and all units are 9½″ overall height. Handles are attached to chassis on all except CA-1980 which is mounted on top of cover. Grilled cutouts and louvres in top cover provide adequate ventilation.

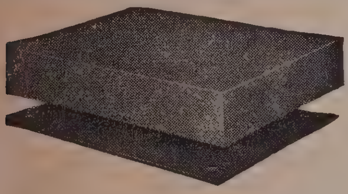
Bud No.	Top-Chassis Dp., Lg., Dp. Inches	Wt. Lbs.	Net Each
CA-1980	5 x 10 x 8	6	$5.60
CA-1981	7 x 12 x 10	8	6.53
CA-1982	7 x 17 x 10	10	7.56
CA-1983	10 x 17 x 13	12	8.25



BUD STANDARD AMPLIFIER FOUNDATIONS

Attractive, economical units for all types of amplifiers. Entire cover is perforated to provide maximum ventilation. Chassis have easy grip handles attached. Numbers CA-699, CA-1125, and CA-1126 are 8 5/16″ high with 2½″ high chassis. Numbers CA-1127, and CA-1128 are 8 13/16″ high with 3″ high chassis. All units are finished in Black Wrinkle Enamel.

Bud No.	Width	Depth	Wt. Lbs.	Net Each
CA-699	9⅝″	5⅛″	4	$3.85
CA-1125	13⅝″	5⅛″	5	4.25
CA-1126	17⅛″	7⅛″	7	5.50
CA-1127	17⅛″	10⅛″	10	7.15
CA-1128	12⅛″	10⅛″	8	6.05



BUD HEAVY DUTY CHASSIS

(Complete With Bottom Plates

Ruggedly constructed of heavy gauge steel these bases are particularly suited for heavy power supplies, modulator units and all applications requiring unusual sturdiness or where large weights are involved. Available in either Black Wrinkle Enamel Finish or Electro-Zinc Plate. All chassis are 17″ wide. Prices shown below are for Zinc Plated chassis. Deduct 5% for Black Wrinkle.

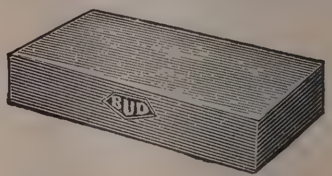
Black Wrinkle Bud No.	Zinc Plated Bud No.	Dpth. Ht. In.	Wt. Lbs.	Net Each
CB-1757	CB-1764	8x2	9	$2.90
CB-1758	CB-1765	8x3	10	3.15
CB-1759	CB-1766	11x2	11	3.30
CB-1760	CB-1767	11x3	12	3.65
CB-1761	CB-1768	13x2	13	4.00
CB-1762	CB-1769	13x3	14	4.40
CB-1763	CB-1770	13x4	15	4.84

BUD STEEL CHASSIS BASES

Made from one piece of steel all corners are reinforced and spot welded. Sides are folded on bottom for extra strength and rigidity, also permitting a bottom plate to be attached if desired. Additional sizes and bottom plates are also available. Write for complete Bud catalog.

Black Wrin. Bud No.	Zinc Plated Bud No.	Dimen.* Inches	Wt. Lbs.	Net Each
CB-788	CB-776	5x9½x1½	1½	$0.80
CB-789	CB-1191	7x7x2	1¾	.90
CB-790	CB-1192	7x9x2	2¼	1.05
CB-791	CB-1193	7x11x2	2½	1.10
CB-792	CB-793	7x12x3	2¾	1.25
CB-646	CB-1194	7x13x2	3	1.20
CB-648	CB-1199	7x17x2½	3½	1.55
CB-652	CB-1195	10x12x3	3½	1.50
CB-653	CB-779	10x14x3	4	1.60
CB-636	CB-637	10x17x3	4½	1.60
CB-656	CB-1197	10x23x3	6	2.44
CB-660	CB-773	13x17x3	6	2.55

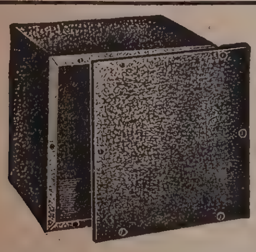
*Dimen. shown—Depth, Width, Height



BUD ALUMINUM CHASSIS

Construction and design of these chassis is exactly the same as the steel units. Welded on the same type of spot welders used in fabrication of aluminum airplane parts. These excellently made bases are constructed to withstand heavy-duty service while being much easier to drill and cut than steel and having the added advantage of lighter weight. Etched Aluminum finish.

Bud No.	Dimensions Dp.-Wd.-Ht.	Wt. Ozs.	Net Each
AC-403	5″ x 9½″ x 2″	11	$0.99
AC-404	5″ x 10″ x 3″	15	1.20
AC-405	7″ x 7″ x 2″	10	.99
AC-406	7″ x 9″ x 2″	12	1.08
AC-408	7″ x 12″ x 3″	20	1.41
AC-409	7″ x 13″ x 2″	16	1.26
AC-412	8″ x 17″ x 3″	28	2.22
AC-413	10″ x 12″ x 3″	24	1.89
AC-416	10″ x 17″ x 3″	30	2.58
AC-418	12″ x 17″ x 3″	34	3.18
AC-419	13″ x 17″ x 2″	28	2.82
AC-420	13″ x 17″ x 3″	36	3.36



BUD METAL UTILITY CABINETS

Designed to house a large variety of electronic equipment such as mixers, monitors, input stages, frequency meters, etc. Front and back are removable for easy accessibility. Ten sizes adaptable for all requirements. Black Wrinkle Enamel finish.

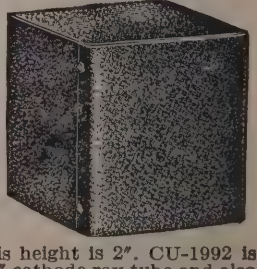
Bud No.	Dimensions Dp.-Wd.-Ht.	Wt. Lbs.	Net Each
CU-883	2″ x 4″ x 4″	1¼	$0.85
CU-728	3″ x 5″ x 4″	1½	.95
CU-729	4″ x 5″ x 6″	2	1.20
CU-1098	6″ x 6″ x 6″	3	1.30
CU-1099	5″ x 6″ x 9″	4	1.86
CU-879	7″ x 8″ x 10″	5	2.30
CU-1124	6″ x 7″ x 12″	5	2.46
CU-880	8″ x 10″ x 10″	7	2.90
CU-881	8″ x 11″ x 12″	8	3.60
CU-882	7″ x 9″ x 15″	10	4.10

BUD SLOPING PANEL CABINETS

Constructed with removable front panel allowing chassis to be attached to form one piece unit. Provided with hinged top for easy accessibility to tubes or other parts mounted on chassis. Ideal for test equipment, ham gear, etc. Black Wrinkle Enamel finish. Complete with bottom plate but less chassis.

Bud No.	Dimensions Ht., Wd., Dp. Inches	Wt. Lbs.	Net Each
C-1584	6½x7 1/16x7¼	4	$3.15
C-1585	6½x9 1/16x7¼	5	3.58
C-1586	6½x11 1/16x7¼	5	3.96
C-1892	8x13 1/16x8½	9	4.75
C-1893	10x18 1/16x10½	14	6.66

BUD STREAMLINED SCOPE AND UTILITY CABINETS

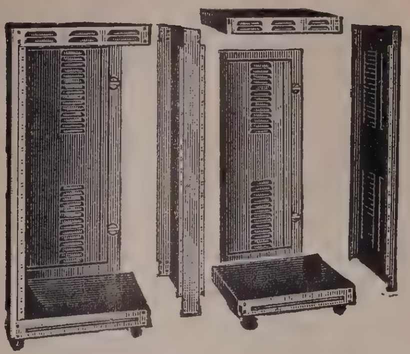


Prices shown below include chassis. The chassis height on all except CU-1991 and CU-1992 is 1½″. CU-1991 is designed for 3″ cathode ray tube and has a hinged cover to provide easy access to tube or other components. Chassis height is 2″. CU-1992 is designed for a 5″ cathode ray tube and also has a hinged cover. Chassis height 3″.

Bud No.	Wid.	Dph.	Hght.	Net Each
CU-1990	5½″	8¼″	8″	$3.50
CU-1984	7½″	8¼″	8″	3.52
CU-1985	9½″	8¼″	8″	3.92
CU-1986	11½″	8¼″	8″	4.30
CU-1987	13½″	8¼″	8″	5.00
CU-1988	15⅛″	8¼″	8″	5.50
CU-1989	17⅛″	8¼″	8″	6.25
CU-1991	7½″	13″	8″	6.00
CU-1992	9½″	19″	12″	8.00

Relay Racks and Panels by BUD

BUD DELUXE RELAY RACKS WITH ADD-A-RACK



High duality relay racks made of 16-gauge steel with ⅛″ panel supports. Panel mounting supports are recessed so that no panel edges will be exposed. Front, back, sides and top fully louvered for best ventilation. Snap catches are positioned on the door. Rounded corners and red-lined chrome trim give streamlined appearance. Base constructed with four special supports so that casters may be applied directly to base. Order casters below. All standard 19. panels will fit these racks. The **Super DeLuxe Series** are equipped with adjustable panel mounting supports permitting forward and backward adjustment of panels for more efficient use of space. Adjustable points are at 1″ intervals up to a point 6″ behind the front panel. **Super DeLuxe** are fitted with both front and rear doors, the rear to cover any equipment behind the panel while making it easily accessible. The front door conceals controls on the front panel. The **Double Rack Series** contains parts for two DeLuxe Series Relay Racks coupled together. The **Add-a-Rack Series** include (1) a door, (2) a top, (3) a bottom and (4) an Add-a-Rack Coupling unit, all that is needed to make a double relay rack out of a single DeLuxe Series Relay Rack. All racks listed are shipped knocked down with all hardware and complete instructions for easy assembly. They all come in a choice of black or gray wrinkle finish or in gray hammertone finish. To order black, add suffix "B" to catalog number; for gray wrinkle add "G", and for hammertone add "HG" to number.

Overall Height In.	Panel Space In.	DeLuxe Relay Rack			Add-a-Rack Series			Double Rack Series			Super DeLuxe Series		
		Bud No.	Wt. Lbs.	Net Each	Bud No.	Wt. Lbs.	Net Each	Bud No.	Wt. Lbs.	Net Each	Bud No.	Wt. Lbs.	Net Each
42 1/16	36¾	CR-1774	90	$32.70	AR-1778	75	$31.00	CR-1779	165	$63.70	CR-2174	108	$44.50
47 5/16	42	CR-1771	100	37.45	AR-1775	77	36.00	CR-1780	185	73.45	CR-2171	117	51.00
66 9/16	61¼	CR-1772	135	48.60	AR-1776	100	45.00	CR-1786	222	93.60	CR-2172	146	65.10
82 5/16	77	CR-1773	155	58.50	AR-1777	127	55.00	CR-1799	277	113.50	CR-2173	191	78.95

Bud Truck Casters—Fit relay racks above. See illustration at left. RC-7757 are for light weight installations; RC7756 are for heavy duty installations where up to 400 lbs. weight is to be distributed over 4 casters. High grade hard rubber composition. Ball bearings.

RC-7756—2⅝ in. diameter. Net Each............**90c** **RC-7757**—2 in. diameter. Net Each.............**40c**

BUD SLIDING DRAWER ASSEMBLY

Installs in any standard rack; can't fall out, can't tilt. Slides easily on ball bearing suspension. Ideal mounting for record player, base for typewriter or writing table. Supports up to 50 lbs. 16½″ x 14″ x 3″ electro-welded steel with gold color finish. Punched with 4 mounting holes.

SD-1717—Sliding Drawer Assembly. Net Each....... **$10.65**

TP-1718—Aluminum Drawer Plate. Attaches to bottom of chassis of drawer assembly to form drawer. 16¾″ x 14″. Net Each **$2.19**

BUD DE LUXE CABINET RACKS

These cabinet racks have rounded corners and attractive red-lined chrome trim. There is a recessed, hinged door on the top with a snap catch. These racks are made of heavy gauge steel and are of sturdy construction. The five large sizes have a hinged rear door, while the small sizes have a welded panel in the rear. Adequate ventilation is assured by means of louvered sides and a two inch opening in the bottom of the back extends the entire width. "NO-SCRATCH" EXTENDED METAL FEET ARE EMBOSSED ON THE BOTTOM TO MINIMIZE MARRING OF A TABLE TOP. Racks are furnished in either black or grey wrinkle finish. Depth 14¾″, width 22″. Will fit standard 19″ panels.

Bud No.	Overall Height	Panel Space	Shipping Weight	Net Each
CR-1741	10 9/16″	8¾″	29 lbs.	$12.00
CR-1740	12 5/16″	10½″	31 lbs.	13.70
CR-1742	14 1/16″	12¼″	32 lbs.	14.55
CR-1739	15 13/16″	14″	36 lbs.	16.20
CR-1743	19 5/16″	17½″	40 lbs.	19.20
CR-1727	22 13/16″	21″	45 lbs.	20.83
CR-1744	28 3/16″	26¼″	50 lbs.	22.50
CR-1728	33 5/16″	31½″	55 lbs.	24.00
CR-1745	36 13/16″	35″	60 lbs.	24.90

BUD JUNIOR CABINET RACKS

This cabinet rack is a multi-purpose unit that is inexpensive. The cabinet is constructed to accommodate two panels. One is 10½″ x 18 5/16″, the other 8¾″ x 18 5/16″. These panels are supplied with the cabinet. The BUD Junior Cabinet Rack is spacious enough to accommodate a chassis up to 10″ x 17″. The rear is covered by a hinged door with a locking device. Black wrinkle finish.

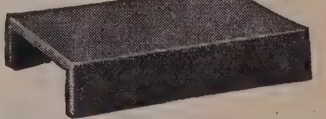
Bud No.	Overall Ht. x Dp. x Wd.	Net Each
RC-1749A	21¼″ x 10½″ x 19⅞″	$15.95

BUD TRIANGULAR MOUNTING BRACKETS

For panel and chassis assemblies where large weights are to be supported. Heavy gauge steel with black enamel finish.

Bud No.	Height Inches	Depth Inches	Actual Wt. Lbs.	Net Per Pair
MB-1266	5	5	1	$0.80
MB-1267	7	7	1	.91
MB-1268	9	9	1½	1.10

BUD OPEN-END CHASSIS



Primarily intended to be used with the various sizes and styles of Bud metal cabinets, these chassis are ideal for any type of small built-up unit such as a record amplifier, code oscillator, etc. U-shaped construction is used with ends folded over ⅜″ for additional strength. Finish is Electro-Zinc Plating.

Bud No.	Depth	Width	Height	Fits Cabinet No.	Net Each
CB-38	7″	6″	2″	C-1584	$0.66
CB-30	5″	7″	1½″	....	.60
CB-41	7″	7″	1½″	C-973	.75
CB-39	7″	8″	2″	C-1585	.84
CB-996	5½″	9″	1½″	C-993	.70
CB-976	7½″	9″	1½″	C-999, C-1746	.95
CB-40	7″	10″	2″	C-1586	.90
CB-997	7″	11″	1½″	C-994, C-1747	1.00
CB-998	7″	13″	1½″	C-995, C-1748	1.16
CB-34	10¾″	14″	2″	C-975A	1.44
CB-35	7¾″	15″	2″	C-1190A	1.38

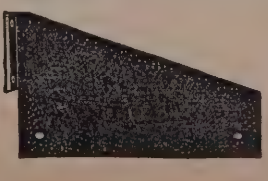
BUD STANDARD RELAY RACK PANELS

Choice of steel or aluminum relay rack panels. Both steel and aluminum are ⅛″ thick. All panels are 19″ wide. Furnished in either black or gray wrinkle finish; state choice. Aluminum panels are available in 3/16″ thickness also at 60% increase over the ⅛″ aluminum panel price.

STEEL			ALUMINUM		
Bud No.	Height, In.	Net Each	Bud No.	Height, In.	Net Each
PS-1250	1¾	$0.66	PA-1101	1¾	$0.75
PS-1251	3½	.75	PA-1102	3½	1.08
PS-1252	5¼	.93	PA-1103	5¼	1.38
PS-1253	7	1.08	PA-1104	7	1.80
PS-1254	8¾	1.30	PA-1105	8¾	2.10
PS-1255	10½	1.55	PA-1106	10½	2.49
PS-1256	12¼	1.85	PA-1107	12¼	2.85
PS-1257	14	2.15	PA-1108	14	3.18
PS-1258	15¾	2.45	PA-1109	15¾	3.60
PS-1259	17½	2.70	PA-1110	17½	3.99
PS-1260	19¼	3.00	PA-1111	19¼	4.35
PS-1261	21	3.30	PA-1112	21	4.65

BUD CHASSIS MOUNTING BRACKETS

Mounts chassis to panels, essential when panel supports entire chassis weight. Heavy grade steel. Cut away at bottom so that chassis can be mounted flush to panel. Black enamel finish.

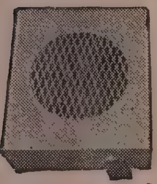


Bud No.	Ht.	Depth	Wt. Lbs.	Net Per Pr.
MB-458	6½″	8″	2	$0.85
MB-448	6½″	10″	3	1.10
MB-459	6½″	11″	3	1.20
MB-449	6½″	12″	3	1.45
MB-460	6½″	13″	3	1.35
MB-450*	8½″	10″	4	1.60
MB-451*	8½″	13″	5	1.70

*Designed for chassis height of 4″.

Baffles, Boxes, Racks by BUD

SILVER SONANCE BAFFLES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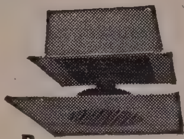

B

Universal Enclosures Bud Adjustable Mount-Bracket (**shown in Fig. A and listed below**) permits adjustment to any angle in a horizontal position. Hole in bracket passes ½″ conduit, permitting any of the speaker housings to be suspended from the ceiling. Bi-lateral feature permits sound to come from both front and back. Made of heavy gauge steel. Sound-deadening compound eliminates metallic resonant. All screws and nuts furnished for mounting speaker. No holes to drill. Silver gray hammertone finish, except CS-2271, 72 and 73, primer finish only.

Bud No.	Speaker Size	Height x Width x Depth	Net Each
CS-2240	4″ or 5″	7¼″ x 6¾″ x 3 15/32″	$3.60
CS-2241	5″, 5½″, 6″	8¼″ x 7½″ x 4″	4.14
CS-2242	6″ or 8″	10 37/64″ x 9½″ x 5 1/16″	7.50
CS-2243	10″ or 12″	15 1/32″ x 13½″ x 7 13/64″	9.60
CS-2270	4″ or 5″	7¼″ x 6¾″ x 3 15/32″	3.45
CS-2271	5″, 5½″, 6″	8½″ x 7½″ x 4″	3.90
CS-2272	6″ or 8″	10 37/64″ x 9½″ x 5/16″	7.20
CS-2273	10″ or 12″	15 1/32″ x 13½″ x 7 13/64″	9.15

Recessed Ceiling and Wall Enclosures (Fig. B)

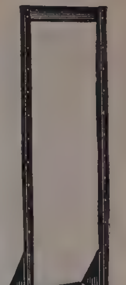
Suitable for an 8″ speaker. Adjustable brackets (below) make the housing ideal for old and new installations. Treated with sound deadening compound. Grille plate is a 14″ square for use with acoustical tile ceiling. Depth, 4 1/16″. Housing dim., 10″ x 10″ x 4″.

Bud No.	Finish	Net Ea.
CS-2244	Silver gray hammertone grille, primer housing	$9.00
CS-2274	Primer coating throughout	8.85
CS-2245	Grille plate only, gray hammertone finish	1.80
CS-2275	Grille plate only, gray primer cost finish	1.68

Brackets and Cover Plate

Bud No.	Description	Net Ea.
AB-2250	Adjustable bracket for CS-2240	$1.14
AB-2251	Adjustable bracket for CS-2241	1.14
AB-2252	Adjustable bracket for CS-2242	1.41
AB-2253	Adjustable bracket for CS-2243	1.65
CP-2255	Outlet box cover plate 4¼″ x 2¾″	.75

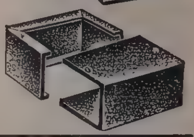
TELEPHONE-TYPE RELAY RACKS



Sturdily constructed of ⅛″ steel channels, 3″ deep, with cross bars of same thickness. Base incorporates a chassis-type bottom, together with side angles. Base drilled for Bud RC-7756 casters. Black wrinkle finish only. Heavy Duty Model (RR-1265) made of two 4″ x 6″ angles of 5/16″ steel 20⅜″ long forming the base. Channels are 72½″ long, of 3″ x 1⅜″ iron. Crossbars of 5/16″ x 2″ steel. Depth 15″. Black wrinkle finish. Usually bolted to floor.

Bud No.	Height In.	Panel Space, In.	Wt., Lbs.	Net Each
RR-1263	35½	31½	38	$17.60
RR-1264	70½	66½	53	20.06
RR-1265	72½	66½	100	44.40

MINIBOXES

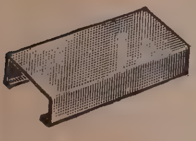


Design of this box permits installation of more components than would be possible in the conventionally designed boxes the same size. Two-piece construction, each half forming three sides. The flange type construction assures adequate shielding. Made from heavy gauge aluminum. Available in etched aluminum finish and gray hammerloid finish.

Length	Width	Height	Gray Finish		Etched Aluminum	
			Bud. No.	Net Each	Bud. No.	Net Ea.
2¾″	2⅛″	1⅝″	CU-2100	$0.63	CU-3000	$0.57
3¼″	2⅛″	1⅝″	CU-2101	.63	CU-3001	.57
4″	2⅛″	1⅝″	CU-2102	.66	CU-3002	.60
4″	2¼″	2¼″	CU-2103	.87	CU-3003	.78
5″	2¼″	2¼″	CU-2104	.90	CU-3004	.84
5″	4″	3″	CU-2105	.99	CU-3005	.93
5¼″	3″	2⅛″	CU-2106	.96	CU-3006	.90
6″	5″	4″	CU-2107	1.23	CU-3007	1.14
7″	5″	3″	CU-2108	1.38	CU-3008	1.26
8″	6″	3½″	CU-2109	2.01	CU-3009	1.89
10″	6″	3½″	CU-2110	2.49	CU-3010	2.07
12″	7″	4″	CU-2111	2.94	CU-3011	2.64
17″	5″	4″	CU-2112	3.45	CU-3012	3.06
10″	2″	1⅝″	CU-2113	1.20	CU-3013	1.20
12″	2½″	2¼″	CU-2114	1.35	CU-3014	1.17
4″	2″	2¾″	CU-2115	.84	CU-3015	.78
4¼″	2¼″	1½″	CU-2116	.87	CU-3016	.81

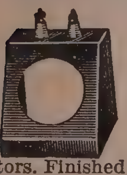
ALUMINUM MINIATURE CHASSIS

These small, open end aluminum chassis are just the thing for miniature tube applications or sub-assemblies. Made of hard aluminum with ¼″ flange on bottom, allowing the chassis to be fastened down or a bottom plate to be attached. Extremely useful for small receivers outboard uses, such as narrow band FM adapters or any use where space is limited Finish is etched aluminum.



Bud No.	Depth In.	Width In.	Height In.	Fits Cabinet No.	Net Each
CB-1623	2⅝	2¾	1¼	C-1784	$0.30
CB-1624	1¾	3⅛	1	CU-883	.33
CB-1625	3¼	4½	2	C-1788	.36
CB-1626	2¾	4⅛	1	CU-728	.36
CB-1627	3¾	4⅛	1½	CU-729	.36
CB-1628	3	6⅛	1¼	C-1785	.42
CB-1629	5¾	4⅞	1½	CU-1908	.45
CB-1617	4	3⅛	1	C-1602	.36
CB-1618	4	4⅛	1	C-1603	.39
CB-1619	4	5⅛	1	C-1604	.42
CB-1620	4	6⅛	1	C-1605	.45

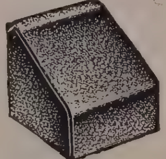
STREAMLINED METER CASES



Designed for all applications requiring a modern meter case. All cases have a sloping front with top corner rounded. Meter cases CM-1241 and CM-1242 have insulators on top for leads to meter. Others are furnished without insulators. Finished in black wrinkle. CMA Nos. are aluminum with etched finish.

Bud No.	Hole Diameter Inches	Fits Meter Size	Net Each
CM-1241	2.334	2″	$1.25
CM-1242	2.835	3″	1.25
CM-1965	2.334	2″	.95
CM-1966	2.835	3″	.95
CMA-2065	2.334	2″	1.02
CMA-2066	2.835	3″	1.02

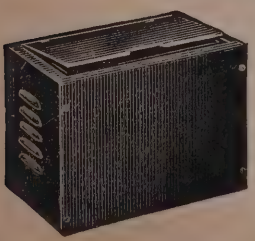
SLOPING PANEL UTILITY BOX



This is a compact, sloping panel cabinet, providing a streamlined appearance and enough space to house conveniently a 2 or 3 miniature tube amplifier or gadget. A ⅜″ flange around the rear opening of the cabinet provides a convenient back cover mounting. Designed to accommodate a miniature chassis. Finish black wrinkle.

Bud No.	Ht. In.	Wd. In.	Dp. In.	Use Chassis No.	Net Each
C-1602	4	4	4¼	CB-1617	$1.20
C-1603	4	5	4¼	CB-1618	1.30
C-1604	4	6	4¼	CB-1619	1.40
C-1605	4	7	4¼	CB-1620	1.50

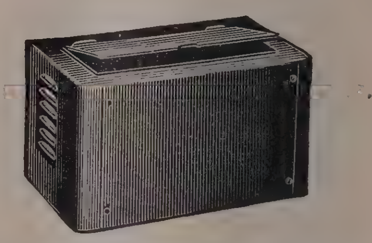
INSTRUMENT AND RECEIVER CABINETS



Each cabinet has an evenly recessed hinged cover with convenient finger lift. The panel on front of cabinet is readily attached with self-tapping screws. Louvers provide ample ventilation. These cabinets are finished in black wrinkle only. For chassis to fit these cabinets, see Open End Chassis.

Bud No.	Height In.	Width In.	Depth In.	Net Each
C-973	7	8	8	$3.20
C-993	7	10	8	3.48
C-994	7	12	8	4.00
C-995	7	14	8	4.20
C-1190	8	16	8	6.00
C-975	9	15	11	6.00
C-999	12	18	12	8.25

STREAMLINED CABINETS



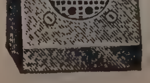
Distinctive features of these cabinets are the rounded front corners and recessed hinged top. All parts built into this cabinet are easily accessible. Overall height, 8″. Depth, 8¼″. Finished in black wrinkle only.

Bud No.	Panel Size In.	Cab. Width In.	Cab. Height In.	Net Each
C-1789	8x8	10½	8	$3.25
C-1746	8x10	12½	8	4.00
C-1747	8x12	14½	8	4.50
C-1748	8x14	16½	8	5.15
C-1790	8x16	18½	8	5.75
C-1730	12x18	20⅜	8	9.30

Deluxe models of above cabinets are identical except they have a ½″ strip of chrome at each side of cabinet. Supplied in gray wrinkle enamel finish only.

Bud No.	Panel Size Inches	Cabinet Width Inches	Net Each
C-1791	8x8	10½	$ 4.15
C-1781	8x10	12½	4.62
C-1782	8x12	14½	4.95
C-1783	8x14	16½	6.18
C-1792	8x16	18½	6.50
C-1731	12x18	20½	10.25

MIDGET SPEAKER CASES

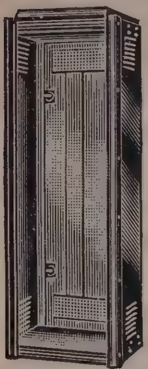


Safe, convenient housing for midget 2″ and 3″ speakers. Furnished in black wrinkle finish. 4″x4″x4¼″

Bud No.	Spkr. Size	Net Each
CS-1685	2″	$1.50
CS-1686	3″	

Relay Racks and Cabinets by PAR METAL

ENCLOSED RELAY RACKS


Deluxe

Standard

Rounded

DE LUXE TYPE

Streamlined rack with removable vertical corner moldings. Made from 1/16" steel. Tapped 10/32 holes for either amateur or standard panels. Standard finish gray ripple enamel; black optional. Shipped knocked down with all necessary bolts and screws.

P.M. No.	Overall Size	Panel Space	Weight Lbs.	Net Each
ER223	43¼x22x18"	36¾"	90	$46.50
ER225	67¾x22x18"	61¼"	135	57.00
ER227	83½x22x18"	77"	165	69.00

ROUNDED CORNER TYPE

Construction same as DeLuxe type, but with rounded front corners; panels fit into a recess. Standard finish gray ripple enamel; black optional.

P.M. No.	Overall Size	Panel Space	Weight Lbs.	Net Each
ER213	42 x22x16½"	36¼"	85	$32.70
ER215	66½x22x16½"	61¼"	125	48.60
ER217	82¼x22x16½"	77"	150	58.50

ROUNDED CORNER TYPE WITH FRONT DOORS

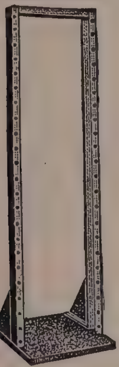
Identical with those listed above, except that they are equipped with hinged front doors, as well as rear doors. No ventilation is provided in front doors and they are equipped with chrome plated handles and locks. The front panel mounting angles are recessed 2" to allow clearance for dials, knobs, etc. This reduces the clear inside depth behind panels to 12½".

P. M. No.	Overall Size	Panel Space	Weight Lbs.	Net Each
FD-215	66½x22x16½"	61¼	160	$62.52
FD-217	82¼x22x16½"	77	190	78.15

SHELVES FOR CABINET RACKS

These shelves are designed to fit into racks listed above. They are constructed to be mounted inside the rack, with side bolt mounting. All shelves are 1" high, and finished in black ripple enamel. Shipping weight 15 lbs.

P. M. No.	Will Fit Rack No.	Shelf Size	Net Each
ER-2012	ER-203, ER-205, ER-207	12x20 11/16"	$3.15
ER-2112	ER-213, ER-215, ER-217	13x21 15/16"	3.15
ER-2212	ER-223, ER-225, ER-227	15x21 15/16"	3.15
R-2215	FD-215, FD-217	10⅝x21 15/16"	3.15



CHANNEL RELAY RACKS

For Standard 19" Rack Panels

Made from 1/4" pressed steel. Tapped 10/32 holes for either amateur or standard panels. The two vertical members and top cross brace securely welded; other parts shipped "knocked down." Tapped 10/32 for either amateur or standard panels; necessary bolts and screws supplied. Black wrinkle enamel only.

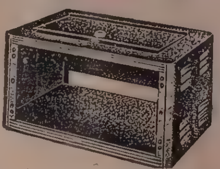
P.M. No.	Overall Size	Panel Space	Wt. Lbs.	Net Each
RR-195	73¼x20x20⅞"	71¾"	85	$21.00
RR-193	38¼x20x18⅜"	36¾"	57	18.00

TABLE TYPE RELAY RACKS

Sturdy relay rack that is useful where floor type heavy duty rack is not required. Mounting holes are accurately drilled on universal centers. Tapped for 10-32" screws. Finished in black ripple enamel. Shipped unassembled with all necessary screws. (Not illustrated.)

P.M. No.	Overall Size	Panel Space	Shipping Wt. Lbs.	Net Each
TR-2520	25 x 21 x 12"	21 x 19"	17	$6.90
TR-3220	32 x 21 x 12"	28 x 19"	20	8.55

DESK PANEL CABINET RACKS

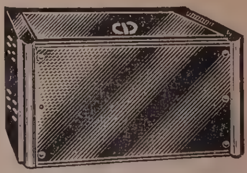


Streamlined styling. In keeping with our other Deluxe racks, the vertical front corners are rounded and the top and bottom are trimmed with chrome finished moldings. Panels fit into a recess, so that the edges are not exposed. Panel mounting holes accurately drilled on universal centers, for either "Amateur" or type "C" panels; holes are tapped for 10/32 machine screws. May be used with any chassis up to 13" x 17" in size. All cabinets constructed of 1/16" thick sheet steel. Louvres provide ample ventilation through sides and back. Piano type hinges are used on the top doors, which are provided with snap catches. Panel mounting screws and washers are furnished. Black ripple enamel is standard. Slate gray is optional at same price.

With Door in Top Only

P. M. No.	Overall Size	Panel Space	Net Each
DL128	10½x21½x15" deep	8¾"	$12.48
DL1225	14 x21½x15" deep	12¼"	15.15
DL1413	15¾x21½x15" deep	14"	16.80
With Door in Top and Door on Rear Panel			
DL1713	19¼x21½x15" deep	17½"	$19.20
DL2613	28 x21½x15" deep	26¼"	22.50
DL3513	36¾x21½x15" deep	35"	24.90

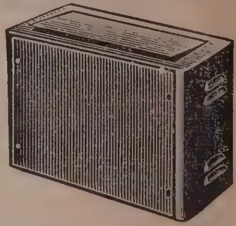
HINGED STEEL CABINETS
DE LUXE TYPE



A new DeLuxe line featuring double roll front corners. Red striped chrome molding and chrome finished door pull. Piano hinged top. Gray ripple enamel finish. Removable front panel. Chassis not included in prices.

P. M. No.	Hgt., Lgth., Dia.	Panel Size	For Chassis	Net Each
CA-300	8½x12¾x 8"	8½x10"	7x 9x2"	$ 5.55
CA-301	8½x16¾x 8"	8½x14"	7x13x2"	6,30
CA-302	9½x17¾x11"	9½x15"	10x14x3"	9.90
CA-303	9½x20¾x 9"	9½x18"	8x17x3"	9,90
CA-304	12½x20¾x12"	12½x18"	10x17x3"	11.10

HINGED STEEL CABINETS
ROUNDED CORNER TYPE



Front vertical corners are rounded. Piano hinged door. Louvres in sides. Opening at rear for cables, leads, etc. Gray ripple enamel finish. Removable front panel. Chassis not included in prices.

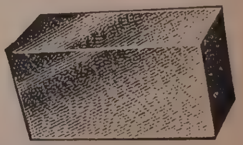
P. M. No.	H. L. D.	Panel Size	For Chassis	Net Each
CA-200	8x10x 8"	8x 8"	7x 7x2"	$4.05
CA-201	8x12x 8"	8x10"	7x 9x2"	4.35
CA-202	8x16x 8"	8x14"	7x13x2"	5.25
CA-203	9x17x11"	9x15"	10x14x3"	8.25
CA-204	12x20x12"	12x18"	10x17x3"	9.75

ROLLER TRUCKS FOR RACKS

Designed for above racks. Overall size is 3" wider than rack for better weight distribution. Rubber composition wheels. Finished in slate gray ripple enamel and chrome trim. Shipping weight, 20 lbs.

P.M. No.	Will Fit Racks	Net Each
RT-410	DL-2613, DL-3513	$ 9.00
RT-411	ER-213, ER-215, ER-217	9.60
RT-412	All 18" deep racks	10.50
RT-415	All 15¼" deep racks	11.40
RT-418	All 18½" deep racks	12.30
RT-424	All 24" deep racks	13.50

STEEL UTILITY CASES

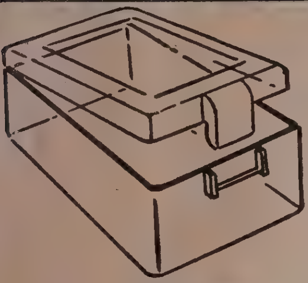


Made from No. 20 gauge steel with removable tops and bottoms. Last dimension is depth. Finished in black ripple enamel.

P. M. No.	Overall Size	Shipping Weight, Lbs.	Each
MC- 442	4x 4 x 2"	2	$ .81
MC- 453	4x 5 x 3"	3	.93
MC- 596	5x 9 x 6"	5	1.77
MC- 666	6x 6 x 6"	3	1.53
MC-8101	8x10 x10"	7	3.24
MC-1128	11x12 x 8"	9	3.60
MC-1576	15x 7¾x 6½"	11	3.15
MC-1597	15x 9 x 7"	9	3.90
MC-8107	8x10 x 7"	6	2.76

Electronic HARDWARE

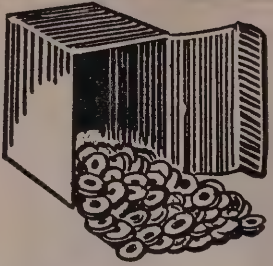
The Hinged Cover Line



G-C 50-LINE PLASTIC BOXES

Supplied in the Hinged Cover Plastic Box as pictured.

Order by part number Net Price per Box. . . . 30c



G-C GROSS PACKAGES

Stock gross packages for economy in ordering.

Add suffix "-G" to part numbers to get gross package.

Gross prices indicated below.

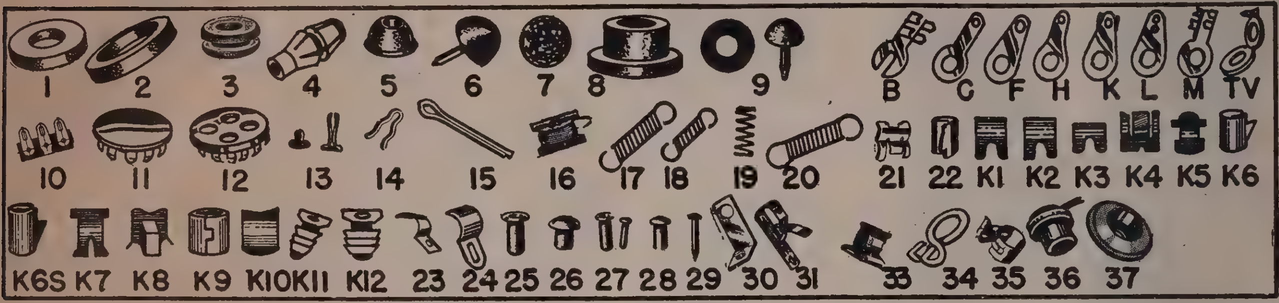


Fig. No.	G-C No.	Description	"50" Qty.	Net Price Per Gross
		PHONO MOTOR AND RADIO DIAL DRIVES		
1	H014-F	3 Speed Recorder Drive	4	....
1	H014-JF	V-M ⅛" Wide Drive	2	....
1	H016-F	2 11/32" O.D. x 1 31/32" I.D. x 5/32" (G. I.)	2	....
1	H017-F	Popular, Alliance, G. I., Etc.	3	....
1	H018-F	RCA, etc. (1 3/32" x 27/32" x 3/16" wide)	4	....
1	H019-F	Philco, R. C. A. ⅜" x ⅛" x ¼" wide)	4	....
1	H020-F	Large Detrola Rubber Drive	1	....
2	H026-F	Asst. Large Dial Drives	5	....
2	H027-F	Asst. Small Dial Drives	5	....
		RUBBER GROMMETS		
3	H025-F	Rubber Grommets, asst.	15	....
3	H030-F	⅛" I.D. x ¼" Mtg. Hole	16	$1.65
3	H032-F	3/16" I.D. x 5/16" Mtg. Hole	14	1.65
3	H034-F	¼" I.D. x ⅜" Mtg. Hole	12	1.89
3	H036-F	⅜" I.D. x ½" Mtg. Hole	10	2.19
3	H038-F	½" I.D. x ⅝" Mtg. Hole	8	3.84
3	H040-F	Gum Rubber Grommets Asst.	12	....
3	H042-F	Gum 3/16" I.D. x 5/16" Mtg. Hole	12	2.07
3	H043-F	Gum ¼" I.D. x ⅜" Mtg. Hole	10	2.28
		CORD STRAIN RELIEFS		
4	H048-F	Cord Strain Reliefs	5	5.85
		RUBBER AND FELT FEET AND BUMPERS		
5	H050-F	Rubber Feet-Screw Type, Asst.	8	....
5	H052-F	Rubber Feet, ⅜" O.D.	8	1.14
5	H054-F	Rubber Feet, ½" O.D.	8	1.74
5	H056-F	Rubber Feet, ⅝" O.D.	8	2.55
...	H058-F	Rubber Bumpers ½" O.D., ¼" hole	8	2.55
6	H071-F	Rubber Tack Feet, ⅜" O.D.	10	2.64
7	H074-F	Felt Pads, ½" O.D. x ¼"	40	....
8	H075-F	Chassis Mts. Asst.	12	....
8	H076-F	Chassis Mts., ¾" O.D. x ¾" high	5	6.99
9	H083-F	Rubber Bumper Asst.	12	....
...	H085-F	Ass't Screw Type Chassis Feet	4	....
...	H087-F	½" Feet, 3/16" ht. 6-32 Mach. Screw	4	8.76
		TERMINAL LUGS AND TERMINAL STRIPS		
	H100-F	Terminal Lugs, Asst.	30	....
B	H104-F	No. 6 Style B	25	1.17
B	H106-F	No. 8 Style B	25	1.29
C	H108-F	No. 6 Style C	30	.99
F	H112-F	No. 6 Style F	30	.99
F	H113-F	No. 8 Style F	30	1.08
H	H114-F	No. 6 Style H	25	1.29
H	H117-F	No. 8 Style H	25	1.35
H	H118-F	No. 10 Style H	25	1.38
L	H122-F	No. 6 Style L	20	1.56
M	H124-F	No. 6 Style M	25	1.26
M	H134-F	No. 8 Style M	25	1.29
TV	H225-F	Solderless for T-V Line	10	3.15
10	H250-F	Terminal Strips, Asst'd	4	....
		HOLE AND VENT PLUGS		
11	H300-F	Snap Hole Plugs, Asst'd	6	....
11	H306-F	Snap Hole Plugs, ¼" Hole	8	3.24
11	H308-F	Snap Hole Plugs, ⅜" Hole	8	3.24
11	H310-F	Snap Hole Plugs, ½" Hole	6	3.75
11	H312-F	Snap Hole Plugs, ⅝" Hole	6	4.50
11	H314-F	Snap Hole Plugs, ¾" Hole	5	5.49
11	H316-F	Snap Hole Plugs, 1" Hole	5	7.26
12	H334-F	Vent Plugs, 1"	4	11.07

Fig. No.	G-C No.	Description	"50" Qty.	Net Price Per Gross
		TRIMOUNTS		
13	H370-F	Trimounts, Asst'd	20	....
13	H373-F	Trimounts, ⅛" Hole	25	$1.35
13	H375-F	Trimounts, .136 Hole	20	1.65
13	H378-F	Trimounts, 5/32" Hole x 35/64" high	17	2.01
13	H379-F	Trimounts, 5/32" Hole x 31/32" high	15	2.25
		HAIR PINS AND COTTER PINS		
14	H380-F	Hair Pin Cotters, Asst'd	50	....
15	H388-F	Cotter Pins, Asst'd	60	....
		DIAL CORDS		
16	H395-F	Dial Cord, Extra thin	10′	....
16	H396-F	Dial Cord, Std. thin	10′	....
16	H397-F	Dial Cord, Med.	10′	....
		SPRINGS		
17	H400-F	Dial Drive Springs, Asst'd., small	10	....
17	H401-F	Springs, Asst., large and small	8	....
17	H403-F	Springs, T1, ½" x ⅛"	10	3.24
17	H406-F	Springs, T2, 1" x ⅛"	8	3.69
17	H408-F	Springs, T3, 1" x 3/16"	8	3.66
17	H410-F	Springs, T4, 1⅜" x 3/16"	8	4.74
17	H412-F	Springs, T5, 1½" x ¼"	6	5.25
18	H420-F	Tension Springs, Asst'd, small	10	....
18	H421-F	Tension Springs, Asst'd, large	10	....
19	H440-F	Compression Springs, Asst'd small	20	....
19	H441-F	Compression Springs, Asst'd, large	15	....
20	H450-F	Phono Springs, Asst'd, small	8	....
20	H452-G	Phono Springs, Asst'd, large	8	....
		KNOB SPRINGS		
	H460-F	TV Knob Spring Asst.	12	....
22	H462-F	TV Spring, .202" shaft	10	3.42
21	H464-F	TV Spring, ⅜" flat shaft	10	2.79
	H480-F	Knob Spring, Asst.	18	....
K1	H482-F	Knob Spring, K1	20	1.44
K2	H484-F	Knob Spring, K2	20	1.74
K3	H487-F	Knob Spring, K3	20	1.59
K4	H489-F	Knob Spring, K4	10	2.55
K6	H492-F	Knob Spring, K6	8	3.15
K8	H494-F	Knob Spring, K8	10	3.75
K10	H497-F	Knob Spring, K10	10	1.59
K11	H498-F	Knob Spring, K11	10	2.58
K12	H499-F	Knob Spring, K12	10	2.76
		CABLE CLAMPS AND BASE BOARD CLIPS		
23	H500-F	Cable Clamps, Asst.	20	....
23	H502-F	Clamps, ⅛" to 3/16" Cable	25	1.17
23	H503-F	Clamps, 3/16" to ¼" Cable	20	1.35
23	H506-F	Clamps, 5/16" to ½" Cable	15	1.53
24	H509-F	Base Board Wire Clip	20	1.95
		EYELETS AND RIVETS		
25	H510-F	Eyelet Asst.	50	....
26	H515-F	.123" x 5/32" x .197"	50	.54
26	H525-F	Rivet Asst.	50	....
27	H526-F	Rivet and Eyelet Asst.	55	....
28	H527-F	TV Receptacle Rivets Asst.	Asst.	....
29	H560-F	Escutcheon Pins, Asst'd	100	....

G-C 50 LINE Electronic HARDWARE G-C 50 LINE

The Hinged Cover Line

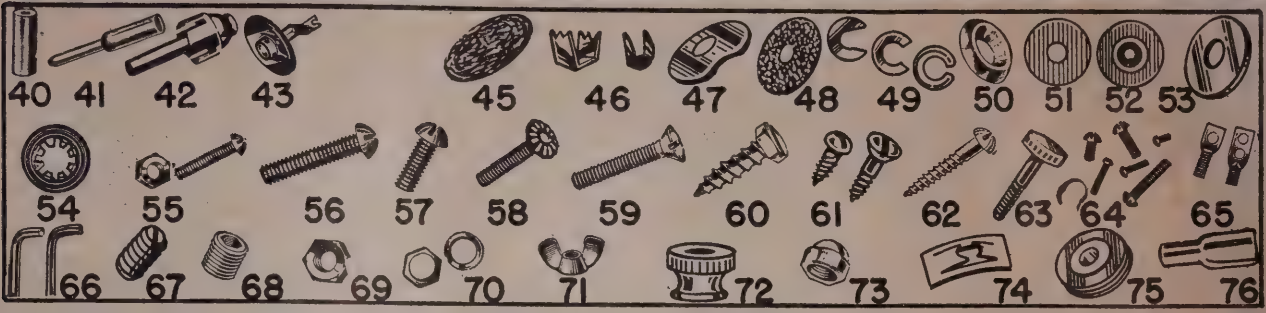


Fig. No.	G-C No.	Description	"50" Qty.	Gross, Net
		POPULAR ELECTRONIC HARDWARE		
30	H570-F	Angle Bracket Asst'd	12	....
31	H590-F	Spring Contact Clips, Asst'd	12	....
31	H592-F	Spring Contact Clips, small	15	$2.37
31	H594-F	Spring Contact Clips, medium	14	2.46
33	H600-F	Fuse Clips Asst'd	12	1.74
35	H609-F	Grid Caps, Asst'd	8	....
34	H610-F	Grid Caps, TV Spring Type	5	....
	H612-F	Grid Caps, Ins. High Volt. ¼" dia.	1	....
	H614-F	Grid Caps, Ins. High Volt. ⅜" dia.	1	....
37	H619-F	Corona Shields	8	....
40	H640-F	Fuse Insulators	16	....
41	H645-F	Phone Tips	10	....
42	H665-F	Phono Plug	4	....
43	H667-F	Phono Jacks	3	....
45	H740-F	Speaker Dust Felts, Asst'd	15	....
46	H744-F	Eyelets and Clamps, Asst'd	60	....
46	H745-F	Dial Cord Clips, Asst'd	30	....
46	H746-F	Dial Cord Clips, for thin Cable	40	.93
		WASHERS		
47	H750-F	Spring Washers, Asst'd	12	.45
48	H760-F	Knob Felt Washers	40	....
49	H770-F	Ret. Rings and "C" Washers, Asst.	25	....
49	H772-F	"C" Washers for 3/16" Shaft	15	.90
49	H774-F	"C" Washers for ¼" Shaft	15	.99
49	H778-F	•Retaining Rings for ¼" Shaft	50	.45
50	H805-F	Cup Washers, Asst.	40	....
50	H806-F	Cup Washers, No. 6 Screw	45	.45
50	H808-F	Cup Washers, No. 8 Screw	45	.51
50	H810-F	Cup Washers, No. 10 Screw	35	.54
51	H820-F	Ins. Washers, Flat, Asst'd	35	....
51	H824-F	Ins. Washers, Flat, No. 6 Hole	30	.33
51	H825-F	Ins. Washers, Flat, No. 8 Hole	30	.39
51	H826-F	Ins. Washers, Flat, No. 10 Hole	30	.45
51	H827-F	Ins. Washers, Flat, ¼" Hole	24	.54
51	H828-F	Ins. Washers, Flat, ⅜" Hole	20	.63
52	H854-F	Ins. Washers, Asst. Ext. and Flat	30	....
52	H855-F	Ins. Washers, Ext. Asst.	30	....
52	H864-F	Ins. Washers, Ext. ⅜" Shaft	20	1.14
53	H870-F	Metal Washers, Asst.	80	....
53	H874-F	Metal Washers, No. 4 Hole	80	.36
53	H876-F	Metal Washers, No. 6 Hole	80	.39
53	H878-F	Metal Washers, No. 8 Hole	80	.42
53	H880-F	Metal Washers, No. 10 Hole	70	.42
53	H882-F	Metal Washers, ¼" Hole	50	.48
54	H918-F	Lock Washers, All Types	45	....
54	H920-F	Lock Washers, Asst'd	50	....
54	H922-F	Lock Washers, No. 2 Hole	35	.87
54	H924-F	Lock Washers, No. 4 Hole	50	.51
54	H926-F	Lock Washers, No. 6 Hole	50	.51
54	H928-F	Lock Washers, No. 8 Hole	50	.57
54	H930-F	Lock Washers, No. 10 Hole	45	.60
54	H938-F	Lock Washers, ⅜" hole	25	1.35
...	H950-F	Lock Washers, External, Asst'd	60	....
...	H960-F	Lock Washers, Split Type, Asst'd	60	....

Fig. No.	G-C No.	Description	"50" Qty.	Gross, Net
		MISCELLANEOUS SCREWS, BOLTS		
61	H1500-F	Esc. Plate Screws, small	25	....
62	H1502-F	Wood Screws, Asst.	25	....
63	H1550-F	Assortment, Phono Screws	12	....
63	H1551-F	2-56 x 9/16", Phono Screws	12	....
63	H1553-F	2-64 x ¾", Phono Screws	12	$0.69
63	H1555-F	1-72 x 19/32", Phono Screws	5	2.85
64	H1560-F	Asst. Phono Cartridge Mtg. Screws	60	....
64	H1562-F	4-36 x ¼", Phono Cartridge Mtg.	40	.60
64	H1564-F	4-40 x ¼", Phono Cartridge Mtg.	40	.60
65	H1570-F	Spade Bolts, Asst.	15	....
		WRENCH SETS		
66	H1600-F	Hex Wrench Set, Allen	4	....
66	H1602-F	Spline Wrench Set, Bristol	4	....
		KNOB SET SCREWS		
67	H1605-F	Asst. Slotted Knob Screws	15	....
67	H1623-F	6-32 x 5/16", Slotted Knob Screws	15	1.89
67	H1633-F	8-32 x 5/16", Slotted Knob Screws	15	1.65
67	H1634-F	8-32 x ¼", Slotted Knob Screws	15	1.68
67	H1644-F	10-32 x ¼", Slotted Knob Screws	15	1.95
68	H1674-F	4-36 Asst., Allen Hex. Screws	5	....
68	H1676-F	6-32 Asst., Allen Hex. Screws	5	....
68	H1678-F	8-32 Asst., Allen Hex. Screws	5	....
		HEX NUTS AND SPECIAL NUTS		
69	H1800-F	Assortment, Steel Hex Nuts	30	....
69	H1802-F	2-56, Steel Hex Nuts	30	.90
69	H1803-F	3-48, Steel Hex Nuts	30	.87
69	H1804-F	4-40, Steel Hex Nuts	30	.84
69	H1805-F	4-36, Steel Hex Nuts	30	.84
69	H1806-F	6-32, Steel Hex Nuts, 5/32" thick	30	.87
69	H1807-F	6-32, Steel Hex Nuts, 7/16" thick	30	.93
69	H1808-F	8-32, Steel Hex Nuts, 5/32" thick	30	.87
69	H1809-F	8-32, Steel Hex Nuts, ⅛" thick	30	.96
69	H1810-F	10-32, Steel Hex Nuts	30	.93
69	H1820-F	¼-20 x 7/16" x 3/16" Steel Hex Nuts	25	1.32
69	H1842-F	4-36, Brass Hex Nuts	35	.99
69	H1844-F	4-40, Brass Hex Nuts	25	1.14
69	H1846-F	6-32, Brass Hex Nuts	25	1.17
69	H1848-F	8-32, Brass Hex Nuts	15	1.17
69	H1850-F	10-32, Brass Hex Nuts	15	1.65
70	H1920-F	Assortment, Mounting Nuts	12	....
70	H1923-F	Vol. Cont. ⅜-32	15	2.34
70	H1924-F	Toggle Sw. Hex. 15/32-32	10	3.24
70	H1926-F	Toggle Ring 15/32-32	8	2.76
71	H1931-F	Wing Nuts, Asst'd	10	....
71	H1933-F	Wing Nuts, 6-32	15	3.45
71	H1934-F	Wing Nuts, 8-32	10	3.45
71	H1935-F	Wing Nuts, 10-32	8	3.75
72	H1941-F	Assortment, Knurled Nuts	10	....
72	H1943-F	6-32, Knurled Nuts	8	2.04
72	H1944-F	8-32, Knurled Nuts	8	2.25
72	H1945-F	10-32, Knurled Nuts	5	5.46
73	H1950-F	Acorn Nuts, Asst'd	10	....
74	H1960-F	Speed Nuts, Asst'd	30	....
75	H1966-F	Dial Pulleys, Asst.	6	....
76	H1968-F	Plastic Anchor, Asst'd	8	....

G-C No.	Description	"50" Qty.	Net, Gross
	SCREW AND NUT ASS'T (Fig. 55)		
H1000-F	Machine Screws	35	....
H1001-F	Screws and Nuts	40	....
H1002-F	Screws, Nuts, Sm.	35	....
H1005-F	Rack Screws, Washers	15	....
	ROUNDHEAD MACH. SCREWS (Fig. 56)		
H1010-F	Assortment 4-36	40	....
H1012-F	Assortment 6-32	40	....
H1016-F	Assortment 8-32	40	....
H1018-F	Assortment 10-32	25	....
H1022-F	2-56 x ¼"	40	$0.57
H1024-F	2-56 x ½"	40	.57
H1026-F	2-56 x ¾"	40	.69
H1028-F	3-48 x ¾"	40	.72
H1032-F	4-36 x ¼"	40	.60
H1033-F	4-36 x ⅜"	35	.60
H1034-F	4-36 x ½"	35	.63
H1036-F	4-36 x ¾"	35	.72
H1042-F	4-40 x ¼"	40	.60
H1044-F	4-40 x ½"	35	.63
H1046-F	4-40 x ¾"	35	.75

G-C No.	Description	"50" Qty.	Net, Gross
	ROUNDHEAD MACH. SCREWS—Cont.		
H1062-F	6-32 x ¼"	40	$0.63
H1064-F	6-32 x ½"	30	.72
H1066-F	6-32 x ¾"	30	.84
H1068-F	6-32 x 1"	30	.96
H1070-F	6-32 x 1¼"	30	1.20
H1076-F	6-32 x 2"	20	1.77
H1082-F	8-32 x ¼"	30	.81
H1083-F	8-32 x ⅜"	25	.87
H1084-F	8-32 x ½"	25	.93
H1086-F	8-32 x ¾"	25	1.08
H1088-F	8-32 x 1"	20	1.23
H1090-F	8-32 x 1¼"	20	1.56
H1104-F	10-32 x ½"	20	1.08
H1106-F	10-32 x ¾"	20	1.29
H1108-F	10-32 x 1"	17	1.47
H1112-F	10-32 x 1½"	15	1.95
H1180-F	Asst. Phillips type	25	....
H1210-F	Asst. Brass Rd. Hd.	30	....
	BINDING HEAD SCREWS (Not Ill.)		
H1168-F	Assortment	35	....
H1170-F	5-36 x ¼"	35	$0.99
H1172-F	6-32 x ¼"	35	.78
H1174-F	7-32 x ⅜"	30	1.05

G-C No.	Description	"50" Qty.	Net, Gross
	ORNAMENTAL HD. SCREWS (Fig. 58)		
H1250-F	Assortment	20	....
H1252-F	6-32 x ¾"	25	$0.90
H1253-F	6-32 x 1"	20	1.02
H1255-F	8-32 x 1¼"	12	1.56
	OVAL HEAD RACK SCREWS (Fig. 59)		
H1266-F	6-32 x ¾"	30	.90
H1270-F	8-32 x ¾"	25	1.08
H1273-F	10-32 x ¾"	20	1.26
	SHEET METAL SCREWS (Fig. 60)		
H1300-F	Assortment	25	....
H1350-F	#4 x ½"	35	.99
H1362-F	#6 x ¼"	30	.99
H1363-F	#6 x ⅜"	25	.99
H1364-F	#6 x ½"	25	1.35
H1366-F	#6 x ¾"	20	1.44
H1382-F	#8x¼" AutoRadio	20	1.74
H1383-F	#8 x ⅜"	20	1.26
H1384-F	#8 x ½"	20	1.59
H1388-F	#8 x 1"	15	2.04
H1403-F	#10 x ⅜"	15	1.80
H1404-F	#10 x ½"	15	1.92
H1406-F	#10 x ¾"	12	2.13

GENERAL G-C CEMENT Popular Chemicals

CEMENTS — CLEANERS — COIL DOPES — THINNERS — IN HANDY 2-oz. BOTTLES

2-oz. size chemicals in wide mouth bottle for easy accessibility. Supplied with plastic cap with brush attached. The handy size for servicemen. (Note, all chemicals available in larger size containers.)

G-C Radio Service Cement—The best cement for repairing radios and torn speaker cones, or replacing torn cones. Vibration-proof. water-proof, and fast drying.

No. 30-2—2-oz. Net Each..........39c
No. 30-4—4-oz. Net Each..........66c
No. 34-2—Tube. Net Each..........36c

G-C Plastic Cement—For broken plastic cabinets, knobs, dials, and crystal assemblies, grille cloth, etc.

No. 32-2A—2-oz. Net Each..........39c

G-C Bakelite Cement—The only cement for use on bakelite. Use on bakelite knobs, cabinets, panels.

No. 32-2—2-oz. Net Each..........51c

G-C Vinylite Cement—Thermoplastic cement. Clear plastic cement for use in metals, plastics, paper, leather, etc. Sets on cooling.

No. 58-2—2-oz. Net Each..........39c

G-C Model Cement—For the home and model maker. Use on wood, paper, plastics, metal, china, ceramics, etc. Water-proof, fast drying.

No. 45-2—2-oz. Net Each..........30c

G-C Rubber-to-Metal Cement — For cementing dial drives, rubber mountings, gaskets, hose, weather stripping, etc.

No. 35-2—2-oz. Net Each..........39c
No. 35-3—Tube. Net Each..........39c

G-C Wood Glue — New white resin, water-proof glue for radio cabinets, furniture, chairs, etc. Extra strong and will not injure finish.

No. 39-2—2-oz. Net Each..........39c

G-C Fabric-to-Metal Cement — Cements cloth or felt to metal or plastics. Ideal for grille cloth, phono turntable felts, all fabrics, paper etc.

No. 22-4—4-oz. Net Each..........66c

G-C SCRATCH REMOVER POLISHES

DARK

Scratch Remover
and
Polish

Polish contains stains to remove scratches. Sell to housewives.

No. 92- 2— 2-oz. Net..30c
No. 92- 8— 8-oz. Net..39c
No. 92-16—16-oz. Net..66c

G-C Ne-O-Prene Cement—For cementing prene rubber to neoprene or other products, such as metal, wood, paper, etc. Fast drying.
No. 52-2—2 oz. Net Each........39c

G-C Vinyl Plastic Fabric Cement—For cementing vinyl plastic sheets together. Ideal for venyl insulating tubing. Dries fast, welds the material together.
No. 16-2—2 oz. Net Each........39c

G-C Carbon Control Cleaner—Cleans and eliminates noise in carbon volume controls without taking apart. Special applicator. Just squirt cleaner along shaft.
No. 212-2—2-oz. Net Each.........39c

G-C Pli-O-Bond—A cold-setting, rubber-like, thermoplastic liquid that dries rapidly to a waterproof, chemically-resistant bond with permanent flexibility and very high strength.
No. 43-2—2 oz. Net Each........39c

G-C Contact and Crystal Cleaner—Extra pure cleaner especially for crystals and contacts. Leaves no film.

No. 127-2—2-oz. Net Each.........33c

G-C Red Contact Cleaner—The best all-purpose cleaner for contacts. Dissolves dirt, removes corrosion and leaves a protective film.

No. 210-2—2-oz. Net Each.........33c

G-C Acrylic Cement—For lucite, plexiglass, and acrylic materials. Strong, fast drying.

No. 40-2—2-oz. Net Each..........39c

G-C TV High Voltage Corona Dope—For preventing corona shorts in high voltage circuits in TV sets. Easy to apply, air drying. Use on any high voltage circuit.
No. 50-2—2 oz. Net Each.........72c

G-C RUF-KOAT WRINKLE VARNISH

The only wrinkle finish that will air dry. Colors: Black, Gray, Brown, Green, Red and Blue.

No 60- 2— 2-oz. Net Each........39c
No. 60- 8— 8-oz. Net Each.....$1.14
No. 60-16—16-oz. Net Each.....$1.98

(Specify Color)

G-C Q-Dope—Liquid polystyrene low-loss coil dope for RF, UHF, and VHF components. Will not change circuit values. Also a polystyrene cement.
No. 37-2—2-oz. Net Each..........39c

G-C Liquidope—Clear fast drying. Gives excellent support to coil forms. Non-inductive, all wave dope.
No. 36-2—2-oz. Net Each..........39c

G-C Radio Service Solvent—Best thinner for all cements—dissolves cement off old cones and speakers.
No. 31-2—2-oz. Net Each..........33c
No. 31-8—8-oz. Net Each..........75c

G-C Cement Thinner—Best thinner for G-C Service Cement.
No. 28-2—2-oz. Net Each..........33c

G-C Paint Thinner — For Ruf-Koat, Krome Koat, Rubber-Cements, Varnishes, etc.
No. 67-2—2-oz. Net Each..........33c

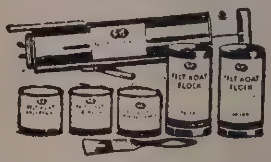
G-C Lacquer Thinner—Thins all lacquer, lacquer enamels, telephone black & gray, etc.
No. 29-2—2-oz. Net Each..........33c

G-C Q-Dope Thinner—Solvent for Q-Dope and polystyrene materials. Clear water white solvent.
No. 41-2—2-oz. Net Each..........33c

G-C Strip-X—Strips enamel from magnet wire. Just dip wire into and wipe off insulation—cleaned, ready for soldering.
No. 26-2—2-oz. Net Each..........39c

G-C Electrical and Resistor Cement—Heat proof cement that hardens like porcelain. Use on resistors, heating elements, etc.
No. 27-2—2-oz. Net Each..........39c

G-C FELT KOAT FLOCK KIT



New G-C kit with special blower gun. Distributes flock evenly and applies a thick velvet-like coat. Kit is complete with gun, brown and ivory flock, brown and ivory undercoat, thinner, brush, etc. Gives professional job on turntables, cabinets, grilles, tool boxes, toys, signs, etc. Has thousands of applications.
No. 180-1—Complete Kit.
Net Each..........................$1.65

CRYSTAL CLEAR
KRYLON
ACRYLIC SPRAY
For Television Use

KRYLON ACRYLIC SPRAY

AVAILABLE IN CLEAR, ALUMINUM, BLACK, WHITE AND SEVEN COLORS AS LISTED BELOW.

Acrylic plastic base spray. Protects from weather, moisture, rust, fungus, corrosion. Clear and Aluminum sprays are non-conductive for use on antennas, masts, etc. Non-flammable. Dries in 10 minutes, hardens in 2 hours.

1302—Crystal Clear
1306—Fixatif
1401—Brt. Aluminum
1501—Touch-up White
1601—Glossy Black
1602—Flat Black
1603—Machine Gray
1604—Light Gray
1701—Bright Gold
1801—Chrome Yellow
1901—Regal Blue
2001—Hunter Green
2101—Cherry Red

12 oz. can. State Color. Net Each. $\$1^{47}$

163-54A

G-C TV TUBE KOAT

New, fast drying conductive coating for recoating the outside of TV picture tubes that are scratched or peeling. Also used to coat the inside of TV cabinets for prevention of high voltage leaks and static discharge. Ideal for coating at point where ground clips contact tube.
No. 49-2—2 oz. Bottle. Net Each...57c
No. 49-8—8 oz. Bottle. Net Each.$1.59

G-C TELEPHONE BLACK or GRAY

High grade lacquer enamel. Black is satin ebony similar to telephones. For panels, racks or parts.
No. 62- 2— 2-oz. Net Each..... 39c
No. 62- 8— 8-oz. Net Each.....$1.14
No. 62-16—16-oz. Net Each.....$1.98
(Specify Color)

Soldering Irons, Guns and Accessories

AMERICAN BEAUTY IRONS, ACCESSORIES

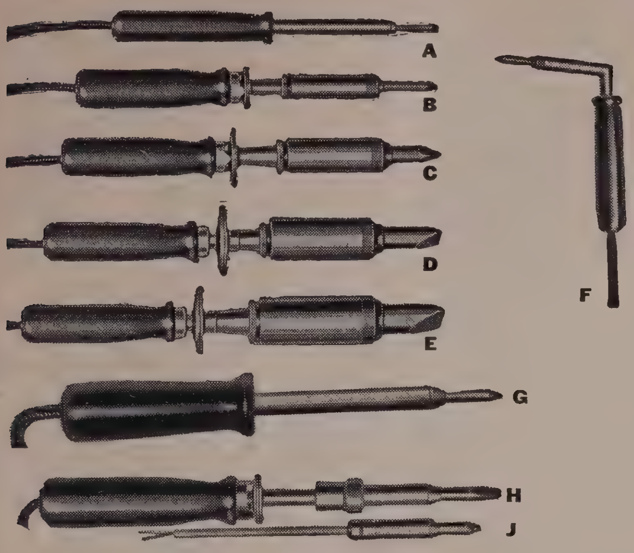
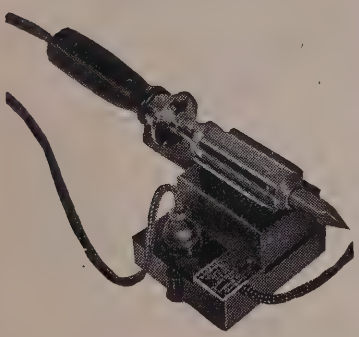


Fig. J—Replacement Element with Tip:
No. 9473—For Iron No. 3438. Net Each **$3.33**
No. 9473-EP—For Iron No. 3438-EP. Net Each......... **$3.99**

TEMPERATURE REGULATING STAND



Thermostatically controlled device for regulation of soldering iron while at rest. When placed on this stand soldering iron is maintained at desired temperature, from very low to full heat. Temperature adjustment located on bottom of plastic base. Complete with line cord, receptacle for connecting iron to regulator. Designed for irons up to 660 watts capacity and on circuits up to 240 volts. Shipping weight 2½ lbs.

American Beauty No. 475.
Net Each....... **$4.41**

SOLDERING IRONS

Incorporated in these irons are features of construction and design that specialized experience has shown to be desirable for efficiency and long lasting service.

Tips: Plug-type, pure copper heavily nickeled, easy tinning, easily removable. **Heating Element:** Unit construction for easy removal, compression wound, corrosion resistant.

Am. Beauty No.	Fig.	Diam. Tip	Watts	Lgth. Over All	Cas-ing Diam.	Approx. Ship. Weight	Net Each
3118	G	⅛″	30	9¼″	......	12 oz.	**$3.33**
3120	G	3/16″	30	9¼″	......	12 oz.	**3.33**
3138	B	⅜″	100	12⅞″	⅞″	2 lbs.	**5.83**
3158	C	⅝″	200	13⅝″	1¼″	3 lbs.	**6.83**
3178	D	⅞″	300	14⅜″	1 9/16″	4 lbs.	**9.00**
3198	E	1⅛″	550	15″	1¾″	5¾ lbs.	**11.66**
3128	A	¼″	60	12¼″	9/16″	1 lb.	**3.67**
3128-A	F	¼″	60		9/16″	1 lb.	**4.00**
3438*	H	⅜″	100	13¼″	......	1½ lbs.	**7.33**
3438EP*	H	⅜″	100	13¼″	......	14¾ oz.	**7.99**

*3438 Iron plated tip. 3438EP Eternalloy plated tip. Both are available in 125 and 140 watts.

REPLACEMENT ELEMENTS

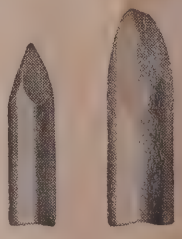
Elements for Soldering Iron Models 3128 and 3128-A include handle, tube, spring and terminal assembly.

Am. Beauty No.	For Iron No.	Net Each
9272	3128	**$1.99**
9272-A	3128-A	**2.39**
9281	3118	**1.83**
9280	3120	**1.83**
9273	3138	**2.39**
9275	3158	**3.19**
9277	3178	**4.32**
9279	3198	**5.69**

PURE COPPER REPLACEMENT TIPS

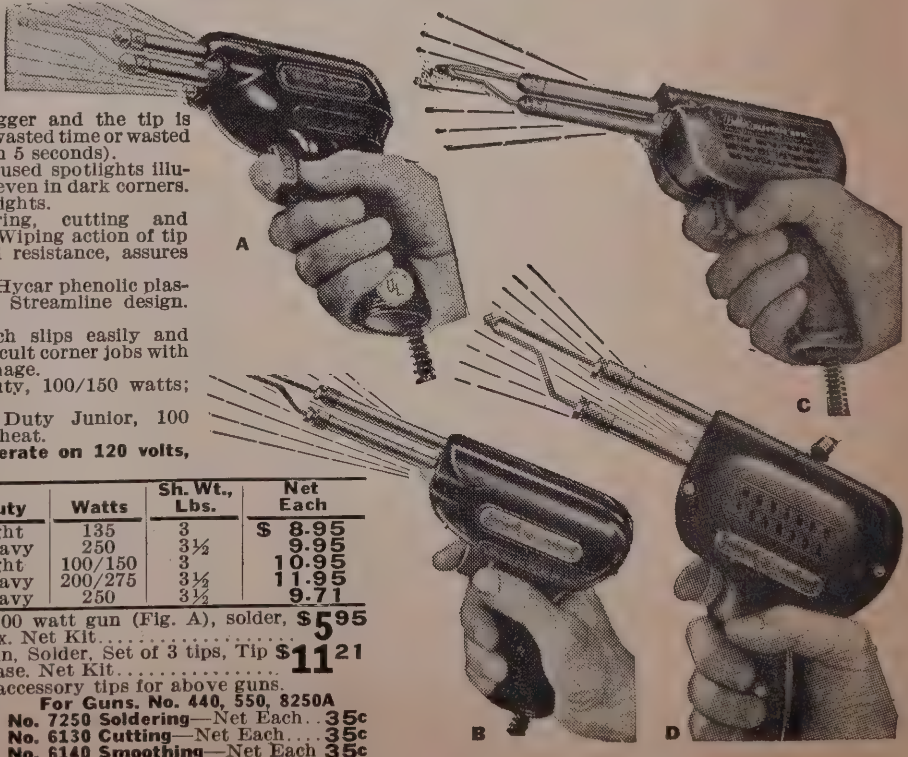
Tip* No.	For Iron No.	Tip Diam.	Net Each
3718	3118	⅛″	**$0.16**
3720	3120	3/16″	**.20**
3728 & S	3128 & A	¼″	**.30**
3728IP & S-IP	3128 & A	¼″	**.57**
3738 & S	3138	⅜″	**.37**
3738IP & S-IP	3138	⅜″	**.64**
3758	3158	⅝″	**.85**
3758IP	3158	⅝″	**1.22**
3778	3178	⅞″	**1.61**
3778IP	3178	⅞″	**2.06**
3798	3198	1⅛″	**2.75**
3798IP	3198	1⅛″	**3.27**

*All tips with the exception of **3728S** and **3738S** can be furnished with either chisel or diamond point—**PLEASE SPECIFY.** 3728S and 3738S are chisel point only. Letter suffix **IP** indicates tips have special long life American Beauty Iron-Plating which materially lengthens tip life—all others are nickel plated.



Diamond Point **Chisel Point**

WELLER SOLDERING GUNS



INSTANT HEAT—Just press the trigger and the tip is instantly at soldering temperature, no wasted time or wasted electricity. (New Junior Model heats in 5 seconds).
DUAL SPOTLIGHTS—Built-in prefocused spotlights illuminate work evenly and without glare, even in dark corners. No more blind soldering or using flashlights.
INTERCHANGEABLE TIPS—Soldering, cutting and smoothing tips easily interchangeable. Wiping action of tip nuts eliminates contact oxidation and resistance, assures constant heat.
HIGH IMPACT HOUSING—Rugged Hycar phenolic plastic housing protects against damage. Streamline design. Built-in transformer.
PRECISE OPERATION—Longer reach slips easily and accurately between wiring, handles difficult corner jobs with ease. Speeds work, ends insulation damage.
2 DUAL HEAT MODELS—Light Duty, 100/150 watts; Heavy Duty, 200/275 watts.
2 HOMECRAFT MODELS—Light Duty Junior, 100 watts; Heavy Duty, 250 watts. Single heat.
All Weller Soldering Guns listed operate on 120 volts, 60 cycle, AC only. U/L Approved.

Weller No.	Key Letter	Gun Type	Duty	Watts	Sh. Wt., Lbs.	Net Each
S-400	B	Single heat	Light	135	3	**$ 8.95**
S-500	B	Single heat	Heavy	250	3½	**9.95**
D-440	D	Dual heat	Light	100/150	3	**10.95**
D-550	D	Dual heat	Heavy	200/275	3½	**11.95**
8250A	C	Single Heat	Heavy	250	3½	**9.71**

Weller No. 8100K Kit—Light-duty, 100 watt gun (Fig. A), solder, solder brush and tool. In cardboard box. Net Kit.................. **$5.95**

Weller No. 8250AK Kit—No. 8250 Gun, Solder, Set of 3 tips, Tip Wrench, 2 Instruction Books, Metal Case. Net Kit............... **$11.21**

WELLERTIPS—Extra and accessory tips for above guns.

For Guns No. 400, 500, 8100
No. 7135 Soldering—Net Each..**25c**
No. 6110 Cutting—Net Each....**35c**
No. 6120 Smoothing—Net Each **35c**

For Guns. No. 440, 550, 8250A
No. 7250 Soldering—Net Each..**35c**
No. 6130 Cutting—Net Each....**35c**
No. 6140 Smoothing—Net Each **35c**

116-55A

Irons, Tools, Solder, Parts Bins

UNGAR SOLDERING IRONS

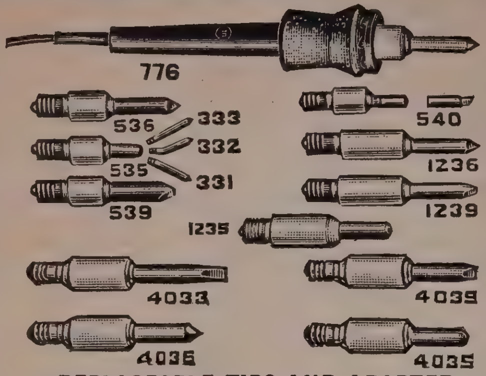
8 NEW FEATURES

1. Full Length Cord. 65 strand. extra flexible.
2. New, Cooler Handle of durable molded plastic.
3. Underwriters' listed.
4. Ceramic Separator for double safety.
5. Spring Action Rivet assures positive contact at all times.
6. Extra Length Brass Shell firmly engages all threads and keeps heating unit tight.
7. 47½ Watt Element. 1,000 degree tip temperature. 110-120 volt AC-DC.
8. Interchangeable tips. 6 Copper Tips with ample heat up to 600° F. in 90 seconds. 5 Hi-Heat Iron Tips, to 800°. 6 Tellurium Copper Super Hi-Heat Tips with tip temperatures 850° to 1000° F.

Ungar No. 776—With tip No. 536. Net Each........ **$1.80**
Lots of 10—Each.........**$1.47**

NEW SUPER HI-HEAT TIPS

850° to 1000° F. actual tip temperature for production line or other heavy duty soldering. Tellurium copper tips plated with iron to eliminate need for grinding, filing and other maintenance chores. Tips are silver coated for ease of tinning. Tip temperatures range from 850° for No. 4035, 900° for No. 4033 and 1000° for Nos. 4036 and 4039. No. 776 handle plus Super Hi-Heat tips uses 47½ watts; with 1200 Series Tips, 37½ watts and with 500 Series Tips, 23½ watts.

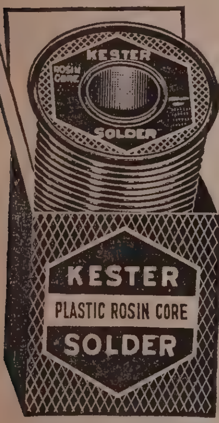


REPLACEABLE TIPS AND ADAPTER

Ungar No.	Description	Net Each	Net 10 Lot
535	Std. threaded unit to hold tips 331, 332, 333.....	$0.88	$7.20
331	Elkaloy Pencil Tip......	.12	1.00
332	Elkaloy Offset Pencil Tip	.12	1.00
333	Elkaloy Chisel Tip......	.12	1.00
536	Standard Pyramid Tip..	.88	7.20
539	Standard Chisel Tip....	.88	7.20
540	Plastic and Marking Unit	.88	7.20
1236	Hi-Heat Pyramid Tip...	1.08	8.80
1239	Hi-Heat Chisel Tip.....	1.08	8.80
1235	Hi-Heat Threaded Unit for 331, 332 and 333 Elkaloy Tiplets.......	1.08	8.80
4035	Super Hi-Heat Thrd. Unit for 331, 332, 333.	2.40	19.50
4033	Super Hi-Heat Chisel Tip	2.40	19.50
4036	Super Hi-Heat Pyramid Tip................	2.40	19.50
4039	Super Hi-Heat Heavy Chisel Tip..........	2.40	19.50

Ungar No. 776 Handle with Cord and all Ungar Pencil Soldering Units Underwriters' Laboratories Listed.

KESTER SOLDER AND SOLDERING PASTE



Rosin Core. High grade, for radio and electrical work. Easy flowing "plastic rosin" eliminates corrosion or leakage. Convenient Tin—Net Each.................. **17c**
1 Lb. Spool......**$1.07** 5 Lb. Spool.........**$5.15**
Thin Rosin Core. 1/16" in diameter for delicate jobs.
1 Lb. Spool......**$1.10** 5 Lb. Spool.........**$5.30**

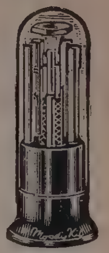
"RESIN FIVE" CORE

Composition		Net Prices			
		3/32" Diameter		1/16" Diameter	
Tin	Lead	1 lb.	5 lbs.	1 lb.	5 lbs.
40%	60%	$1.07	$5.15	$1.10	$5.30
50%	50%	1.24	6.00	1.27	6.15
60%	40%	1.39	6.75	1.42	6.90

Acid Core Solder. For all general soldering other than electrical connections. Handy tin—Net Each.. **17c**
1 Lb. Spool......**$1.07** 5 Lb. Spool.........**$5.15**
Soldering Paste. Specially processed for more even distribution of fluxing ingredients. Convenient 2 oz. cans. Shipping Weight 5 oz.—Net Each........... **11c**
10 for..................................**$1.05**
Tinning Block. Cleans and tins soldering irons quickly. Replaces sal ammoniac. Permits efficient soldering. Shipping Weight 1¼ lbs.—Net Each............ **65c**

MOODY HOBBY KITS

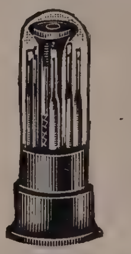
MAGNETIC WRENCH SET



Handy kit contains 5 interchangeable socket wrenches with swivel-head, magnetized handle. Provides easy way of reaching tiny nuts in narrow, hard to reach places. Socket wrench sizes: 5/64", 3/32", 7/64", 1/8" and 5/32" hex. Both wrenches and handle of tough heat-treated steel, rust resistant. Ideal set of wrenches for the hobbiest who works on miniature models, as well as for the serviceman who has to get at tiny hard to reach parts.

Moody No. BW-5—Magnetic Socket Wrench Set. Net Each.... **$2.37**

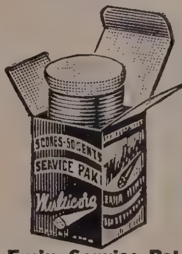
TINY SCREW DRIVER SET



Set of five tiny Screw Drivers made up of five interchangeable blades and one handle. Blades are .040", .055", .070", .080" and .100". Handle barrel is rust-proofed knurled steel with a solid locking chuck that takes any of the five blades. Blades are high quality hardened steel. Entire set fits into holder with clear plastic cover. State color of base and swivel top: Blue Green, Yellow, Ruby.

Moody No. SC-5—Tiny Screwdriver Set. Net Each............ **90c**
Moody No. PA-5—Phillips Driver and Allen Wrench Kit. Similar to above but with No. 4, 6 and 8 Allen Wrench and No. 0 and 1 Phillips Driver tips that fit handle. Net Each............ **$1.50**

ERSIN MULTICORE SOLDER



Has five cores of Ersin Flux. Thin wall for faster melting. Non-corrosive, dependable. Lab tested, proven to be able to solder directly and quickly to nickel and cadmium plated chassis, togs and parts. Now in new Service Pak plus the 1-lb. cartons and 7-lb reels.

Ersin Service Pak—Specify alloy: 40/60 16-ga., 50/50 17-ga. or 60/40 18-ga. Net Each......................... **50c**

1 POUND CARTONS

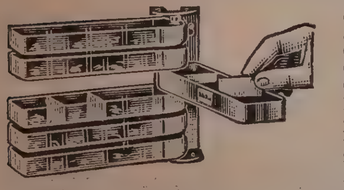
Alloy	No. 14	No. 16	No. 18
40/60	$1.26	$1.28	$1.32
45/55	1.36	1.38	1.42
50/50	1.43	1.45	1.49
60/40	1.60	1.62	1.66

7 POUND REELS

Alloy	No. 14	No. 16	No. 18
40/60	$ 8.54	$ 8.68	$ 8.96
45/55	9.24	9.38	9.66
50/50	9.73	9.87	10.15
60/40	10.92	11.06	11.34

AKRO-MILS PARTS BINS

NEW "SWING-BIN" CABINETS



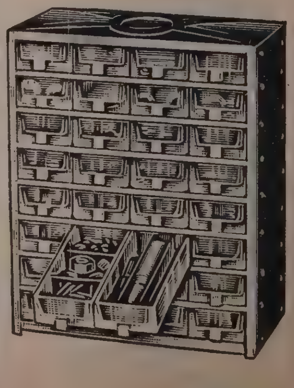
Efficient storage space for dozens of small items. Easy to attach to any desk wall, shelf or ceiling. Bins swing out for easy access to contents. Sturdily built of easy-to-clean plastic to last for years. Bins are easily removed for cleaning. Bin dividers are removable, providing four sizes of bin. Labels may be used, or just look through the clear plastic to see the contents. All bins are clear except the Ivory colored model. 2½" wide x 1 1/16" deep x 9½". Metal brackets.

Akro-Mils Number	Drawers No.	Drawers Color	Net Each
SC-6-C	6	Clear	$ 3.98
SC-6-P	6	Pink	3.98
SC-6-R	6	Red	3.98
SC-6-I	6	Ivory	3.98
SC-6-B	6	Blue	3.98
SC-6-G	6	Green	3.98
SC-6-Y	6	Yellow	3.98
SC-12	12	Clear	7.50
SC-18	18	Clear	10.98
SC-24	24	Clear	$14.50
SC-36	36	Clear	21.98
SC-48	48	Clear	28.98
PEDESTAL BASE MODELS			
SP-4	4	Clear	$3.75
SP-6	6	Clear	4.75
SP-9	9	Clear	6.50
SP-12	12	Clear	8.50

"HAZ-BIN, JUNIOR" CABINETS

Life-time guaranteed, crystal-clear plastic drawers. Strong, all-steel cabinet has individual drawer guides. Baked-on silver-gray hammer finish. Complete with index cards, removable lengthwise and crosswise drawer dividers and rubber feet. Drawer size for all models; 2¾" wide, 1 7/16" deep, 5⅞" long. Movable dividers separate each drawer into 3 compartments.

Model	No. of Drawers	Net Ea.
J-8	8	$4.25
J-12	12	5.95
J-16	16	6.95
J-20	20	7.95
J-24	24	9.95
J-32	32	12.95
J-48	48	20.95
J-64	64	24.95
J-96	96	42.95
J-128	128	55.95

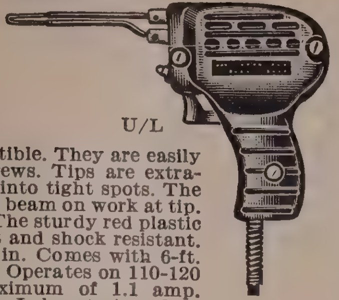


Extra Drawers—Net Each................................. **24c**

Soldering Gear, Sanders, Lamps

WEN SOLDERING GUN AND SANDER

NEW "QUICK-HOT"

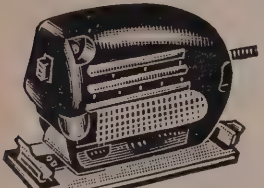


Combines extremely fast heating with light weight for easy handling. It is working hot only 2¼ seconds after the trigger is pressed. Ideal for close delicate work. The tips are of the new type steel nose lifetime, that properly used are almost indestructible. They are easily removed by loosening set screws. Tips are extra-long and narrow for reaching into tight spots. The built-in spot light focuses light beam on work at tip. The gun weighs only 1½ lbs. The sturdy red plastic handle and case both are heat and shock resistant. Overall length without tip, 5 in. Comes with 6-ft. Prenex cord and molded plug. Operates on 110-120 volt, 60-cycle AC, with maximum of 1.1 amp. Approved by Underwriters' Laboratories, Inc. Shipping Weight, 2¼ lbs.

Wen Model 199 "Quick-Hot" Soldering Gun—Net Each.......................... **$5.95**

Wen Model 19B4—Long-reach, steel-nose, lifetime tip for Wen Quick-Hot Soldering Gun Model 199 above. Net Each..... **35c**

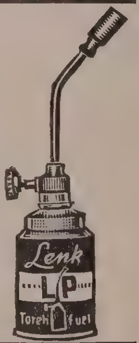
WEN POWER SANDER



Quiet operation from vibrator motor. Smooth action—no whip or bounce, minimum vibration. Positive straight line action—sands with the grain, all the way into inside corners. Self-tightening clamp. 20 sq. in. sanding area. High speed cool operating motor. Choice of utility black, fire engine red or marbled green color. 14,400 strokes per minute. Paper Size: 3¼" x 7⅝". Weight, 3¾ lbs. Size: 5⅝" long x 3" wide x 3⅛" high. Complete with 6-ft. U/L approved Prenex cord with molded plug, and heavy steel carrying case.

Wen Model 404—Net Each........................ **$14.97**

LENK NO. 77-LP TORCH



An instant lighting Liquid Petroleum Torch with a disposable fuel tank. This torch will hold its own with any torch made. In addition to electrical connections, silver soldering and the general run of jobs, it can be used to do sweat fittings, light brazing, heating of manifolds for quick starting and almost any job requiring high heat. Equipped with two burners—needle type and blast type flames. Self-sealing valve permits safe removal of head. No priming, since it is instant lighting. Furnished complete with two burners and two fuel tanks.

Lenk Model 77-LP Torch—Net Each..... **$3.71**

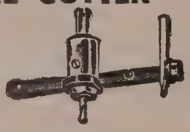
Lenk Model 77-1 Repl'm't Fuel Tank—Net **59c**

Lenk Model 77-2 Needle Pt. Burner—Net **$1.72**

Lenk Model 77-3 Utility Attachment—Net. . **68c**

ICA ALL-PURPOSE CIRCLE CUTTER

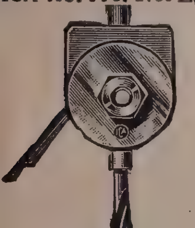
Will Cut Holes from 1½ to 8 Inches



Cutting bar holder is ⅞" in diameter and also accommodates a centering drill or any size pilot pin. Cutting bar is ⅜" square and is arranged to hold a ³⁄₁₆" high speed cutting bit.

ICA No. 775. Net Each............ **$3.00**

UNIVERSAL MULTI-PURPOSE CUTTING TOOL

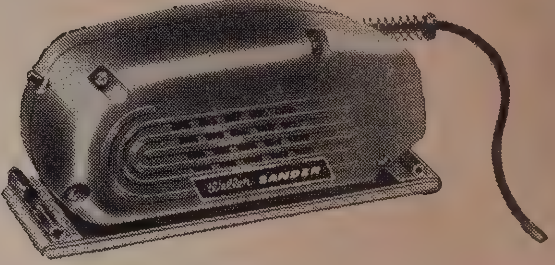


This handy tool can be used for countersinking, beading, drilling or cutting holes. Equipped with ¹⁄₁₆" drill for holes from ¹⁄₁₆" diameter up to 3" diameter. Can be used either in drill press or hand brace. Also acts as a boring tool when used in a lathe.

ICA No. 780—Net Each........... **$3.08**

WELLER MODEL 700 POWER SANDER AND POLISHER

- **PUSH-BUTTON CONTROL**
- **POWER-PACKED**
- **EXCLUSIVE LOW DESIGN**
- **EXCLUSIVE INSULATION**
- **25 SQUARE INCH SANDING AREA**
- **EIGHT-FOOT CORD**
- **POSITIVE STRAIGHT-LINE ACTION**

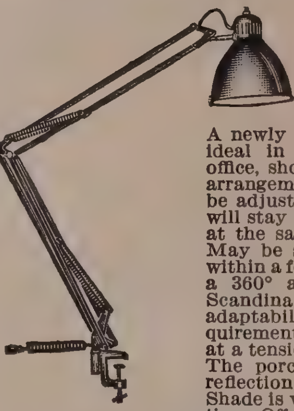


The new Weller Sander is as efficient as any rotating motor-driven sander, and offers many practical features for craftsmen who want professional results. It has no equal for combined quality and price. Each Weller Sander comes with 6 sheets of assorted sandpaper and a special polishing cloth. Workmanship and material are guaranteed for 90 days. Powerful, reciprocating type motor gives 14,400 strokes per minute. Lubrication is never needed. 110/120 volts, 60 cycle, AC only. Positive straight-line action. No torque, bucking or twisting. Permits sanding with the grain for scratchless, smooth surfaces and sanding in corners. Twenty-five square inch sanding area, equal to that of the largest vibrator type made. Paper holders lock tightly under tension, and permit easy replacement. Rubber insulators between housing and motor minimize vibration, giving quieter, smoother operation. Exclusive low design. Only 2⁵⁄₁₆" high for easier accessibility, fits into low places and permits comfortable hand-grip. Push-button control. Finger-tip action for "on" and "off". Positive action. Stroke and power adjustment nut does not loosen under vibration. Extra-long (8-foot) power cord gives real freedom of operation.

Weller Model 700 Sander—Net Each................ **$11.21**

NEW LUXO ADJUSTABLE LAMP

MODEL L-1



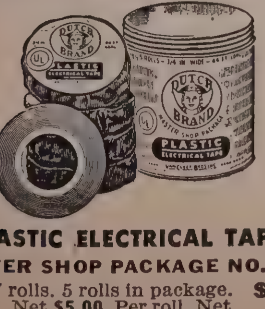
A newly designed lamp that provides the ideal in glare-free illumination for the office, shop or home. Through an efficient arrangement of arms and springs, it may be adjusted instantly to any position and will stay there. The shade always remains at the same angle to the bench or floor. May be swung from straight up down to within a few inches of the floor and through a 360° arc. Arms extend to 45". This Scandinavian made lamp is famous for its adaptability to almost any lightning requirement. Swivel joints are spring loaded at a tension adjustable by a knurled knob. The porcelainized shade provides fullest reflection from the 40 or 60-watt bulb. Shade is vented at the top for heat dissipation. Off-On switch conveniently located on top of shade. Available in choice of Ivory, Black, Mahogany, Gray or Green. Illustrated with bracket "A". Usable also with brackets B, C, D or Floor Stand T (see below). U/L Approved. Shipping Weight, 5 lbs.

Luxo Model L-1 Lamp—Complete with one bracket A, B or C. Net................................ **$16.46**

Luxo Model L-1 Lamp—Complete with bracket D. Net. **$17.40**

Luxo Model L-1 Lamp—Complete with movable, tiltproof floor stand "T" in Dove Gray or Ivory. Net Each.......... **$34.46**

JOHNS-MANVILLE (DUTCH BRAND) PLASTIC, RUBBER AND FRICTION TAPE



PLASTIC ELECTRICAL TAPE

MASTER SHOP PACKAGE NO. 120

¾" x 44' rolls. 5 rolls in package. Package, Net **$5.00.** Per roll, Net.. **$1.00**

JUNIOR SHOP PACKAGE NO. 121

¾" x 20' rolls. 5 rolls in package. Package, Net **$2.75.** Per roll, Net.......... **55c**

½" PLASTIC ELECTRICAL TAPE NO. 125

½" x 150" long. Per roll, Net Each. . **21c**

.010" PLASTIC ELECTRICAL TAPE

½" x 36 yards. Net Each........ **$1.84**
¾" x 36 yards. Net Each....... **$2.30**
1" x 36 yards. Net Each........ **3.00**
2" x 36 yards. Net Each........ **6.00**

RUBBER SPLICING TAPE

Fuses instantly without heat. Insulates perfectly. High dielectric strength. Stretches readily. Contains no corrosive chemicals. Insulates up to 18,000 volts through a single thickness. Contains pure natural rubber, no free sulphur nor corrosive chemical.

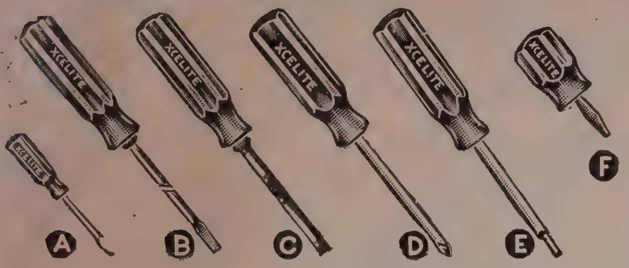
Two Ounce Roll—Net Each....... **14c**
Four Ounce Roll—Net Each........ **22c**
Eight Ounce Roll—Net Each....... **40c**

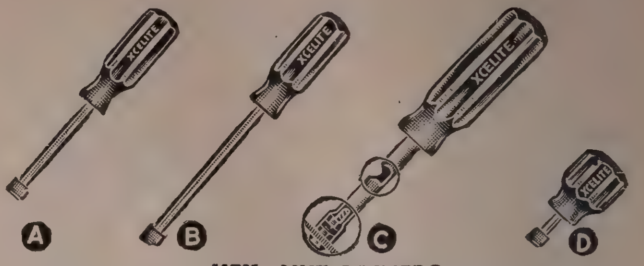
FRICTION TAPE

Standard ¾" roll for radio, electrical and home use. Lasts longer in any climate, sticks tight, extra strong. Won't ravel, tears straight. Resists up to 2,000 volts through one thickness.

Two Ounce Roll—Net Each....... **12c**
Four Ounce Roll—Net Each....... **22c**
Eight Ounce Roll—Net Each...... **39c**

XCELITE *Quality Tools*





ROUND BLADES, NICKEL PLATED—POCKET STYLE Fig. A

Xcelite No.	Handle Diam.	Handle Length	Blade Diam.	Blade Length	Overall Length	Net Each
R-3323	½″	2″	3/32″	3″	5″	$0.24
R-3324	½″	2″	3/32″	4″	6″	.24
R-183	½″	2″	⅛″	3″	5″	.24
R-184½	½″	2″	⅛″	4″	6″	.24

ROUND BLADES, POLISHED—Fig. B

Xcelite No.	Handle Diam.	Handle Length	Blade Diam.	Blade Length	Overall Length	Net Each
R-182	¾″	2¼″	⅛″	2″	4¼″	.30
R-184	¾″	2¼″	⅛″	4″	6¼″	.33
R-186	¾″	2¼″	⅛″	6″	8¼″	.36
R-188	¾″	2¼″	⅛″	8″	10¼″	.42
R-1810	¾″	2¼″	⅛″	10″	12¼″	.48
R-5323	¾″	2¼″	5/32″	3″	5¼″	.39
R-5324	¾″	2¼″	5/32″	4″	6¼″	.39
R-5325	¾″	2¼″	5/32″	5″	7¼″	.39
R-5328	¾″	2¼″	5/32″	8″	10¼″	.48
R-142	1″	4″	¼″	2″	6″	.57
R-144	1″	4″	¼″	4″	8″	.60
R-146	1″	4″	¼″	6″	10″	.63
R-148	1″	4″	¼″	8″	12″	.69
R-1410	1″	4″	¼″	10″	14″	.75

SQUARE BLADES, POLISHED—Fig. C

Xcelite No.	Handle Diam.	Handle Length	Blade Diam.	Blade Length	Overall Length	Net Each
S-144	1″	4″	¼″	4″	8″	.69
S-146	1″	4″	¼″	6″	10″	.72
S-148	1″	4″	¼″	8″	12″	.81
S-388	1 5/16″	4⅜″	⅜″	8″	12⅜″	1.14
S-3812	1 5/16″	6″	⅜″	12″	18″	1.65
S-3818	1 5/16″	6″	⅜″	18″	24″	1.80

PHILLIPS SCREWDRIVERS—Fig. D

Xcelite No.		Blade Length	Overall Length	Net Each
X-101	Phillips No. 1 Point	3″	6⅜″	$0.63
X-108	Phillips No. 1 Point	6″	10″	.69
X-1020	Phillips No. 2 Point	10″	13¾″	1.08
X-102	Phillips No. 2 Point	4″	7¾″	.81
X-103	Phillips No. 3 Point	6″	10″	1.08
SX-101	Phillips No. 1 Point	Short Stubby Type		.60
SX-102	Phillips No. 2 Point	Short Stubby Type		.66

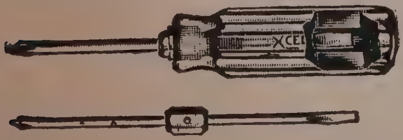
CLUTCH HEAD SCREWDRIVERS—Fig. E

Two different types offered. **Type G** for ordinary service work. **Type A,** however, will hold the screw by turning counter clockwise. It is used in original assembly work.

Type G No.	Type A No.	Size	Blade Diam.	Blade Length	Net Each
G-183	A-183	⅛″	3/16″	3″	$0.72
G-5324	A-5324	5/32″	¼″	4″	.79
G-3164	A-3164	3/16″	¼″	4″	.79
G-146	A-146	¼″	5/16″	6″	1.05
G-5166	A-5166	5/16″	⅜″	6″	1.29

STUBBY SCREWDRIVERS, POLISHED BLADES—Fig. F

Xcelite No.	Handle Diam.	Handle Length	Blade Diam.	Blade Length	Overall Length	Net Each
S-3161	1⅛″	1½″	3/16″	1¼″	2¾″	$0.40
S-141	1⅜″	2″	¼″	1¼″	3¼″	.46
S-5161	1⅜″	2″	5/16″	1¼″	3¼″	.46



DUAL PURPOSE SCREWDRIVER KITS

Large (1 3/16″ x 4 1/16″) hollow to receive the dual-blade screwdriver units. Screwdriver blades are made of a special quality electric furnace alloy steel.

Blade No. RB-1—3/16″ regular, No. 1 Phillips. Net Each....65c

Blade No. RB-2—¼″ regular, No. 2 Phillips. Net Each....65c

Blade No. RB-3—5/16″ regular, No. 3 Phillips. Net Each....65c

Handle No. 25—To fit any of above blades. Net Each.....51c

Nos. CR-1, CR-2, CR-3—Combination of blade and handle. (RB-1 and handle will be CR-1 combination). Net Ea. $1.14

PLASTIC ROLL KITS

No. CK-2—Contains RB-1, RB-2 blades and No. 25 handle in plastic roll. Net Each.......................... $2.19

No. CK-3—Contains RB-1, RB-2, RB-3 blades and No. 25 handle in plastic roll. Net Each...................... $2.82

HEX. NUT DRIVERS

Xcelite No.	Figure	Nut Size	Handle	Overall Length	Net Each
6	A	3/16″	Black	6″	57c
7		7/32″	Brown		
8		¼″	Red		
9		9/32″	Orange		
10		5/16″	Yellow		
11		11/32″	Green		
12		⅜″	Blue		
A6	B	3/16″	Black	9″	69c
A7		7/32″	Brown		
A8		¼″	Red		
A9		9/32″	Orange		
A10		5/16″	Yellow		
A11		11/32″	Green		
A12		⅜″	Blue		
A14	B	7/16″	Brown	9″	90c
A16	B	½″	Red		
S-8	D	¼″	Red	3¼″	48c
S-10		5/16″	Yellow		
S-12		⅜″	Blue		

HOLLOW SHAFT NUT DRIVERS—Fig. C

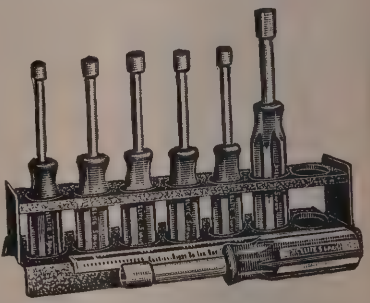
Xcelite No.	Nut Size	Handle	Depth of Hole	Overall Length	Net Each
HS-8	¼″	Red	5″	6″	75c
HS-10	5/16″	Yellow			
HS-11	11/32″	Green			
HS-12	⅜″	Blue			
HS-14	7/16″	Brown	5″	7″	$0.84
HS-16	½″	Red			.87
HS-18	9/16″	Orange			.90
HS-20	⅝″	Yellow			1.05

HEX. NUT DRIVER SETS

SUPER NUT DRIVER SET No. 137

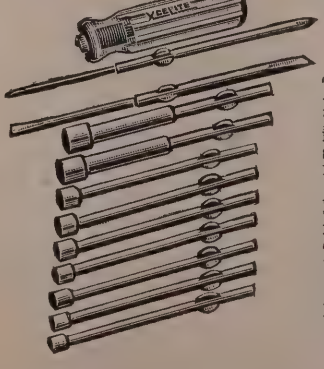
Size of socket indicated instantly by color of handle. Sockets fit the nuts snugly and are free of burrs. Sockets deep enough to handle two nuts at a time. Includes seven wrenches, Numbers 6, 8, 10, 11, 12, HS-16 and HS-18.

Set No. 137—
Net Each........ $5.37



DE LUXE NUT DRIVER SET No. 127

Not illustrated, similar to No. 137 above with provisions for wall-mounting. Color-coded plastic handles to indicate size. Consists of seven wrenches, 3/16″ to ⅜″ in 1/32″ steps. Handy metal holder included. **Set No. 127**—Net Each...................... $4.71



No. 99PR MULTI-PURPOSE SET

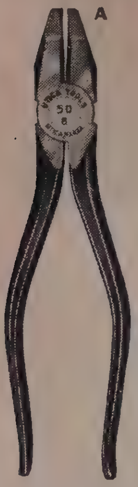
This kit comes in a long-wearing plastic roll kit with an extra pocket. Each unit slips easily into universal handle and is held securely by the **Stay-Locked** fastener. All tools are **chrome plated.** Contains 99-1 multi-purpose handle; 99-82 reversible Phillips blade; 99-81 multi-purpose screwdriver blade; 3/16″, 7/32″, ¼″, 9/32″, 5/16″, 11/32″, ⅜″, 7/16″, ½″ nut drivers.

Kit No. 99PR—
Net Each.............. $7.17

TV FOCALIZER ADJUSTMENT SCREWDRIVERS

Xcelite beryllium-copper screwdrivers are non-magnetic—no disturbance to TV image. Better fatigue resistance than steel. Long 10″ shanks to reach into chassis—wide tapered blade to fit adjustment screw snugly. For adjusting focalizer on TV sets. Blade ¼″ x 10″, tip width ⅜″, overall length 12″.
No. BR1410FC Screwdriver—Net Each................. $1.95

Dependable Hand Tools by U TI CA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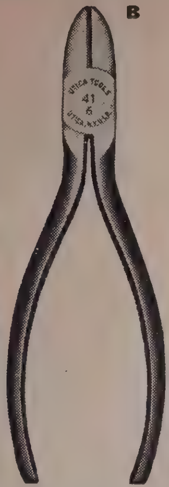
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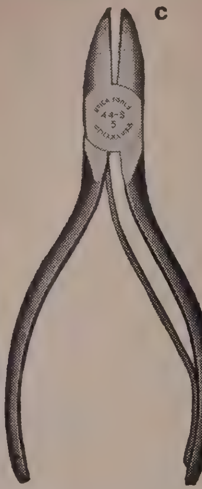
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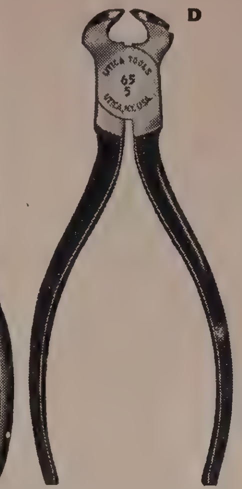
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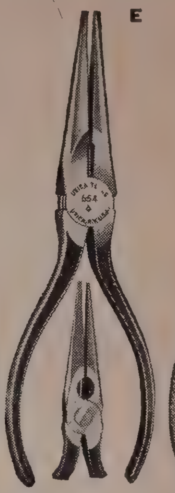
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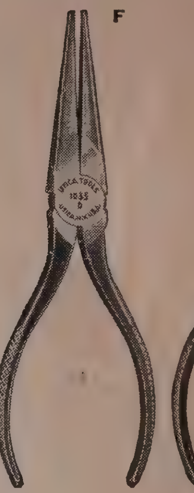
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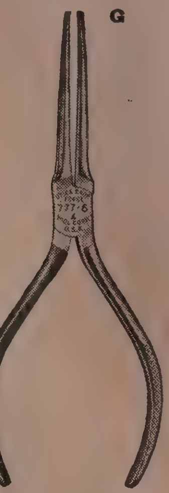
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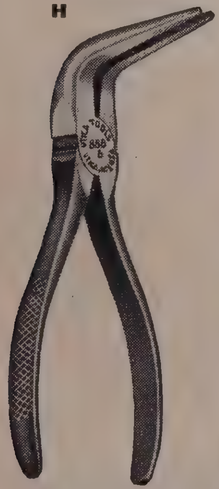
Utica Drop Forge and Tool Company quality radio pliers and wrenches are made from finest tool steel, properly tempered and hardened for long life and "more tool mileage."

Utica No.	Fig.	Description	Size	Net Each
1950	......	Heavy duty side cutting........	6″	$2.25
			7″	2.63
			8″	3.15
3950	......	Above, with insulated handles...	6″	3.00
			7″	3.75
			8″	4.46
50	A	Standard side cutting pliers.....	4″	1.80
			5″	1.88
			6″	2.03
			7″	2.33
			8″	2.55
52	......	Above, closed nose, fine-check jaw	6″	2.40
			7″	2.62
			8″	3.30
46	......	Midget diagonal pliers..........	4″	1.99
41	B	Electrician's diagonal pliers.....	4″	1.75
			5″	1.96
			6″	2.25

Utica No.	Fig.	Description	Size	Net Each
V41	......	41 with W notch and ins. crusher	5″	$2.51
44S	C	Special diagonals with spring....	5″	2.31
			6″	2.62
45	......	Aviation short-nose diagonals...	6″	2.47
40	......	High-leverage diagonals........	7″	2.10
39	......	Heavy-duty diagonals..........	7″	2.47
48	......	Plastic (only) cutting diagonals..	6″	3.75
			7″	4.12
65	D	Jeweler's end-cutting nippers....	4½″	2.17
			5″	2.55
260	......	End-cutting nippers............	6″	2.21
			7″	2.55
			8″	2.85
654	E	Long nose side cutting pliers....	6″	2.25
			7″	2.63
1033	F	Long nose pliers...............	6″	1.75
			7″	1.95
777	G	Long needle nose pliers.........	6″	1.98
86	......	Duck bill pliers with flat jaws....	6″	1.80
84	......	Long thin flat nose pliers.......	6″	2.62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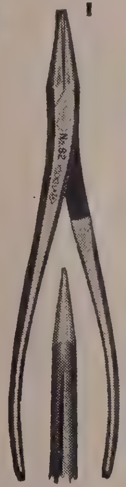
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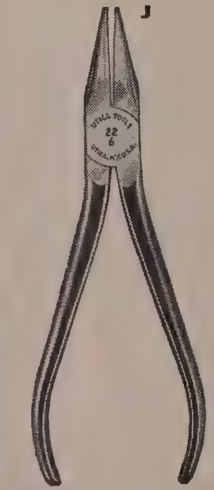
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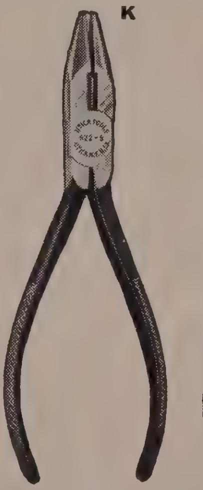
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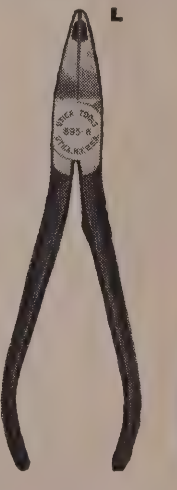
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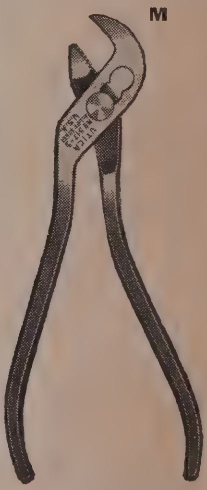
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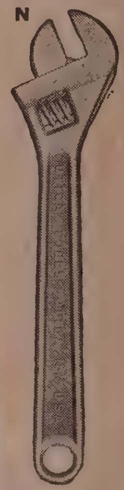
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Utica No.	Fig.	Description	Size	Net Each
888	H	Curved needle nose pliers.......	6″	$2.33
31	......	Duck bill wiring pliers..........	8″	2.03
82	I	Needle nose assembly pliers.....	8″	2.10
22	J	Short nose pliers, scored jaws....	4″	1.58
			4½″	1.65
			5″	1.73
			6″	1.88
622	K	Short nose side cutting pliers....	5″	2.05
2291	......	Insulation skinning pliers.......	6″	2.15
895	L	Radio and ignition cutting pliers.	6″	2.33
21	......	Round nose pliers..............	4″	1.73
			4½″	1.88
			5″	2.03
			6″	2.10
87	......	Extra long duck bill pick-up pliers	7″	2.17
85	......	Duck-bill, convex & concave jaws	5½″	3.00
650	......	Long reach flat nose side cutting	6″	2.60
517	M	5″ ignition pliers...............	5″	.98
		10″ ignition pliers..............	10″	1.88
20	......	Flat-nose pliers, scored jaws.....	5″	1.65
			6″	1.73

ADJUSTABLE WRENCHES — MODELS 91 AND 92

For use in places that are inaccessible to regular wrenches. Thin, strong jaws. Movable jaw has wide bearing on frame for greater support. **Model 91:** (Fig. N) Drop forged steel. **Model 92:** Locking lever sets jaws rigidly.

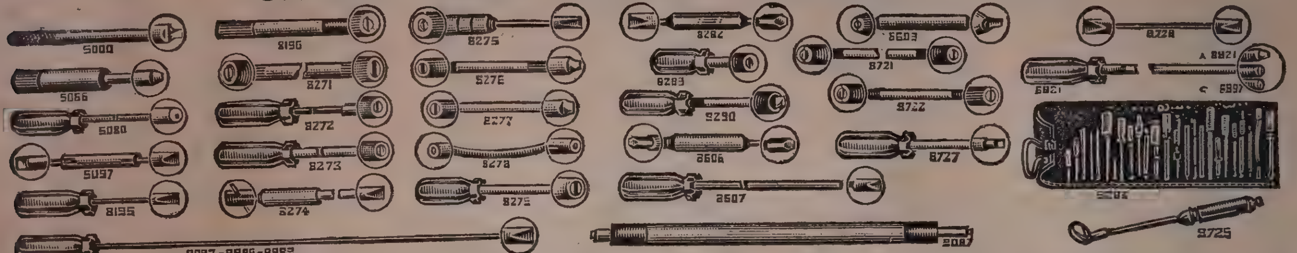
SPECIFICATIONS OF TOOL NO. 91

Size	Thick. of Jaw (Min.)	Thick. of Head (Min.)	Jaw Open Max.	Model 91 Net Each
4″	1/8	5/16	1/2	$1.56
6″	3/16	3/8	3/4	1.56
8″	15/64	15/32	15/16	1.83
10″	9/32	9/16	1 1/8	2.33
12″	11/32	11/16	1 5/16	3.38
15″	19/32	31/32	1 3/4	5.10
18″	23/32	1 3/16	2 1/16	8.48

No. 92-8″—Jaw opening, 15/16″. Net Each................$2.40
No. 92-10″—Jaw opening, 1 1/8″. Net Each.............. 2.89
No. 92-12″—Jaw opening, 1 5/16″. Net Each.............. 3.94

G-C Television Alignment Tools

GENERAL CEMENT TELEVISION ALIGNMENT TOOLS



No. 5000 ALIGNMENT SCREWDRIVER

Low inductance metal tip driver made of Butyrate material—strong, durable, completely insulated. **27c**

G-C No. 5000—¼″ x 6″. Net Ea... **27c**

G-C No. 5088—⅛″ x 6″. Net Each.. **27c**

No. 5066 TV ALIGNMENT TOOL

Very short, sturdy driver, fine metal screwdriver blade. For TV and FM set alignment in the cabinet.

G-C No. 5066—2⅝″ long. Net Ea.. **33c**

No. 5080 TV ALIGNING WRENCH

⅛″ square socket wrench, 3/16″ shaft with insulated handle. Approximately 6″ long overall.

G-C No. 5080—Net Each......... **51c**

No. 5097 K-TRAN TOOL

For K-Tran and IF transformers. Butyrate material, screwdriver on both ends.

G-C No. 5097—6″ long. Net Each.. **51c**

No. 8195 TV CHANNEL TUNING TOOL

Completely insulated, non-metallic tool with long ⅛″ narrow blade. 7¼″ long over-all. Made of bone fiber.

G-C No. 8195—Net Each......... **54c**

No. 8196 FM TUNING TOOL

Special short tool with fine recessed driver tip for TV and FM adjustments when set is in console. Butyrate.

G-C No. 8196—2½″ long. Net Each. **36c**

No. 8271 TV CORE ALIGNER

For Motorola, Stewart-Warner, Belmont and other sets using Stackpole or other stud type cores that are not slotted. Butyrate material, 6″ long with a milled steel insert on one end and a thin driver blade on the other.

G-C No. 8271—Net Each......... **54c**

No. 8272 TV IF OSCILLATOR ALIGNER

Will fit all makes of sets. Made with a plastic handle and a steel shaft. Extra thin spring steel driver blade.

G-C No. 8272—6½″ l. overall. Net. **72c**

No. 8273 ALL-PURPOSE TV ALIGNER

Specially made for TV IF adjustments. Plastic handle, Butyrate shaft. Very thin spring steel shaft recessed so tool will guide self over screw.

G-C No. 8273—8″ long over-all. Net **66c**

No. 8274 TV LONG REACH ALIGNER

For Admiral, Zenith, RCA and other sets for adjustments of nested iron cores that are hard to reach, and RCA front end adjustments. Extra thin bone fiber blades. Can be reground.

G-C No. 8274—9″ long. Net Each.. **72c**

No. 8275 TV UNIVERSAL ALIGNER

Specially designed for Zenith and other sets. Made of bone fiber and plastic handle, it has a thin fiber driver on one end and a recessed extra thin spring steel tip on the other.

G-C No. 8275—5″ long over-all. Net **48c**

No. 8276 TV DUPLEX ALIGNER

All-purpose, for trimmers and IF transformers. Butyrate material with extra thin spring steel tips. One end has projected tip, the other is recessed.

G-C No. 8276—6″ long. Net Each.. **48c**

No. 8277 TV "SHORTY" ALIGNER

For trimmer and IF's where space does not permit a longer tool. Butyrate with extra thin hardened spring steel tips. Projected tip on one end, recessed tip on the other. Only 2½″ long.

G-C No. 8277—Net Each......... **48c**

No. 8278 TV TUNING WAND

Specially made of extra thin flexible plastic to fit small coil openings in TV sets. Brass insert on end reduces inductance and iron core on other end increases inductance.

G-C No. 8278—6″ long. Net Each.......................... **33c**

No. 8279 TV CORE ALIGNER

A long-reach aligner for hard-to-reach places. Recessed steel milled slot to fit over the Stackpole and other type stud cores that are not slotted.

G-C No. 8279—7½″ long. Net Ea.. **66c**

No. 8282 ZENITH TV TOOL

New plastic molded tool made specially for Zenith TV sets. Plastic hex wrench on one end, small driver tip on the other. 5 9/16″ long over-all.

G-C No. 8282—Net Each......... **33c**

No. 8289 "SHORTY" DRIVER

Fits No. 4 and No. 6 studs. Only 2″ long over-all. Unbreakable plastic with recessed spring steel tips. Precision made. Color Coded.

G-C No. 8289—Net Each......... **42c**

No. 8290 UNIVERSAL ALIGNER

Unbreakable clear flexible plastic and an amber plastic handle. 7″ long over-all. Precision made, spring steel tips.

G-C No. 8290—Net Each......... **60c**

No. 8606 ZENITH NYLON HEX WRENCH

For Zenith and other sets. Hex wrench on both ends, one end undercut for iron core tuners to reach bottom slug in coils. 5⅛″ long.

G-C No. 8606—Net Each......... **33c**

No. 8609 ALIGNMENT TOOL

All-plastic. Made of clear lucite, 5″ long x ⅜″ diameter. One end tip is recessed.

G-C No. 8609—Net Each......... **60c**

No. 8721 TV 2-IN-1 9″ LONG REACH DUPLEX ALIGNER

For No. 4 and No. 6 studs. Clear, unbreakable plastic. Ends colored red and blue for size identification. Used on all TV sets. Spring steel, recessed tips. 7/32″ diameter, 9″ long.

G-C No. 8721—Net Each......... **75c**

No. 8722 TV 2-IN-1 7″ ALIGNER

Clear, tough unbreakable plastic. Ends colored red and blue. For No. 4 and No. 6 studs. Recessed tips. 7/32″ diameter x 7″ long over-all.

G-C No. 8722—Net Each......... **63c**

No. 8727 K-TRAN TV ALIGNER

Specially made for K-Tran IF transformer tuner slugs. Precision made of bone fiber with an amber plastic handle.

G-C No. 8727—6¼″ long over-all. Net Each.......................... **51c**

No. 8728 TV LONG REACH ALIGNMENT SCREWDRIVERS

Bone fiber, extra-thin ⅛″ diameter. Driver tip on both ends, can be reground.

G-C No. 8728A—⅛″ x 7″ long. Net. **27c**

G-C No. 8728—⅛″ x 12″ long. Net.. **42c**

G-C No. 8729—⅛″ x 16″ long. Net.. **54c**

No. 8607 NYLON LONG-REACH ALIGNER

Insulated metal shaft and nylon tip that can be replaced. Very sturdy.

G-C No. 8607—12¼″ long. Net Ea. **$1.08**

G-C No. 8608-E—Envelope of one extra tip. Net Each......................... **18c**

LONG ARM TV TOOL

Plastic shaft. Extra long. Handy on Zenith sets and others where adjustments are hard to get at. 18″ long over-all.

G-C No 8821—With fine metal screwdriver extending beyond shaft. Net.. **90c**

G-C No. 8896—With recessed screwdriver blade. Net Each................... **90c**

G-C No. 8897—With recessed steel milled slot. Net Each..................... **90c**

TV "X 57 PLASTIC LONG SLIM" SCREWDRIVERS

An all-insulated adjustment screwdriver with almost the strength of a metal driver. Tip is tough, shaft is tough and flexible. Tips can be reground.

G-C No.	Blade Length	Over-all	Net
8987	7″	9¼″	$0.60
8988	12″	14¼″	.90
8989	16″	18¼″	1.20

No. 9087 SLUG SAVER ADJUSTING TOOL

Prevents slug from falling out on Standard Tuners. Saves time.

G-C No. 9087—Net Each......... **60c**

No. 5090 INSPECTION MIRROR

Enables you to see into chassis. Made with a long handle.

G-C No. 5090—Net Each......... **33c**

No. 8283 MASTER DE LUXE TV TOOL KIT

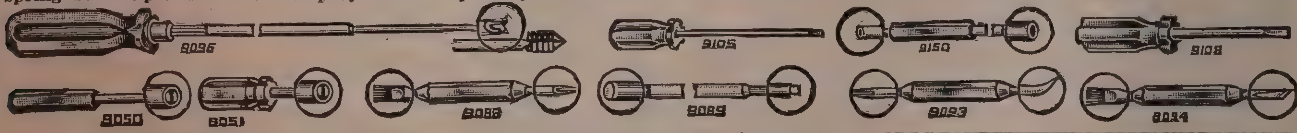
In a superior leatherette roll-type case. Contains the 25 tools listed and includes all TV tools except extra long ones (over 9″). No. 5000, 5066, 5080, 5097, 8195, 8196, 5088, 8271, 8272, 8273, 8274, 8275, 8276, 8277, 8278, 8279, 8282, 8606, 8609, 8289, 8290, 8276, 8721, 8722, 8727.

G-C No. 8283—Net Each...... **$12.51**

No. 8280 DELUXE TV ALIGNMENT TOOL KIT

Handy leatherette roll-type case containing one each of the following: No. 5066, 5080, 5097, 8195, 8196, 8271, 8272, 8273, 8274, 8275, 8276, 8277, 8278, 8279, 8282, 8606.

G-C No. 8280—Net Each....... **$7.74**



NO. 9050 ZENITH-RCA TOOL

Plastic. ¾″ blade. 3/16″ OD shaft. Recessed slot in blade end.

G-C No. 9050—3″ long. Net Each.. **18c**

G-C No. 9051—Same as 9050 but with plastic handle. 2½″ long, 1½″ shaft, 7/32″ OD blade with recessed slot. Net Ea. **45c**

NO. 9088 SOLDER REMOVER

Stainless steel, hardened probe one end, wire brush on other.

G-C No. 9088—8″ long. Net Each.. **99c**

NO. 9089 WESTINGHOUSE TOOL

For Westinghouse coils. End turned down to fit coil opening. Butyrate with metal tip 5¾″ long.

G-C No. 9089—Net Each......... **54c**

NO. 9090 ADJUSTABLE SHORTY

Recessed tip. Adjustable 1¼″ to 2″ length. Need not remove chassis from cabinet. RCA, Westinghouse, etc.

G-C No. 9090—Net Each......... **42c**

NO. 9091 DOUBLE END HEX TOOL

All nylon .125 hex, one end undercut to reach bottom slug without turning top slug of coils.

G-C No. 9091—5″ long. Net Each.. **45c**

G-C No. 9091-L—11″ long. Net Ea.. **60c**

PRINT-KOTE TOOLS

G-C No. 9093—Soldering Aid, Probe. Stainless steel fine point probe. 8″ long. Net Each.............................. **99c**

G-C No. 9094—Stainless steel brush, hardened scraper to clean silicon resin before making repairs. Net Each.......... **99c**

COPPER-BERYLLIUM ALIGNING TOOLS

Hardened. Non-magnetic. ⅛″ blade.

G-C No. 9105—6″ long. Net Each.. **75c**

G-C No. 9106—10″ long. Net Each.. **81c**

Focus Adj. Tool. ¼″ blade.

G-C No. 9108—6″ blade. Net Ea.. **$1.65**

G-C No. 9109—8″ blade. Net Ea.. **$1.77**

G-C No. 9110—10″ blade. Net Ea. **1.95**

NO. 9096 SLUG RETRIEVER

Ends ground to fit standard coils.

G-C No. 9096—12″ long. Net Ea.. **$2.22**

G-C No. 9097—15″ long. Net Ea.. **$2.97**

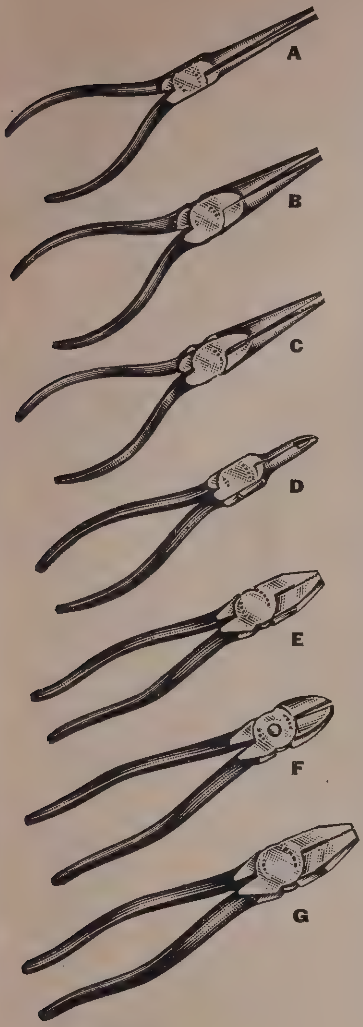
NO. 9150 RCA ALIGNMENT TOOL

Nylon. Recessed metal tip one end, plastic slot on other. For RCA, Zenith, etc.

G-C No. 9150—6″ long. Net Each.. **90c**

Serviceman's Tools, Supplies

XCELITE QUALITY PLIERS



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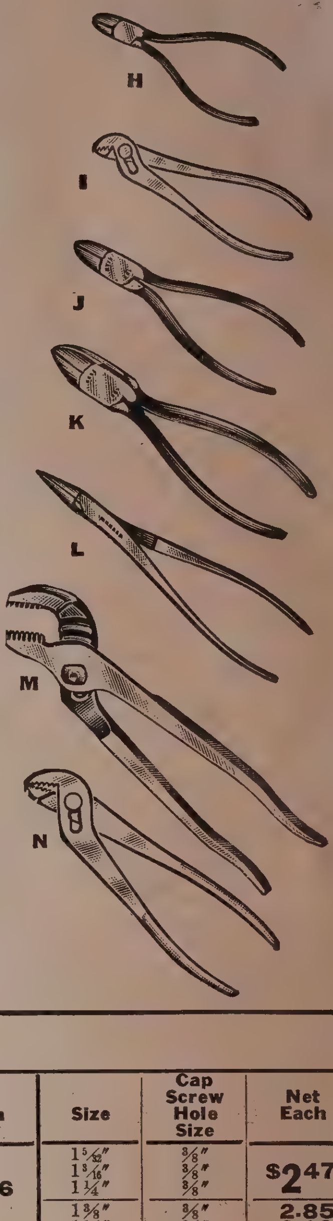

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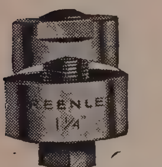

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1"	⅜"	2.34	1¾"	¾"x2¼"	4.18
1 1/16"	⅜"	2.47	1⅞"	¾"x3"	5.22
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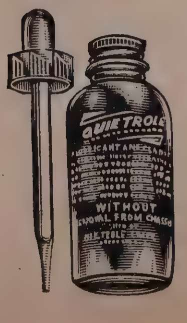

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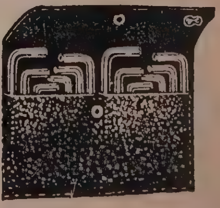

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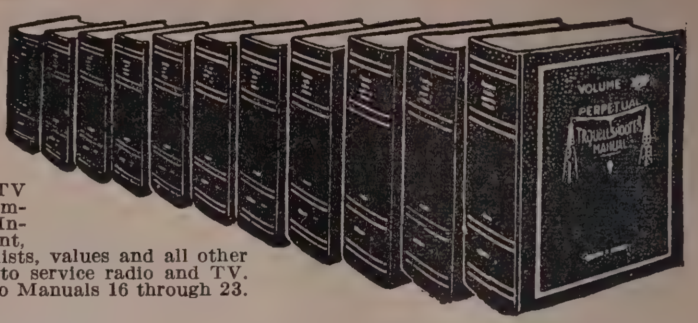

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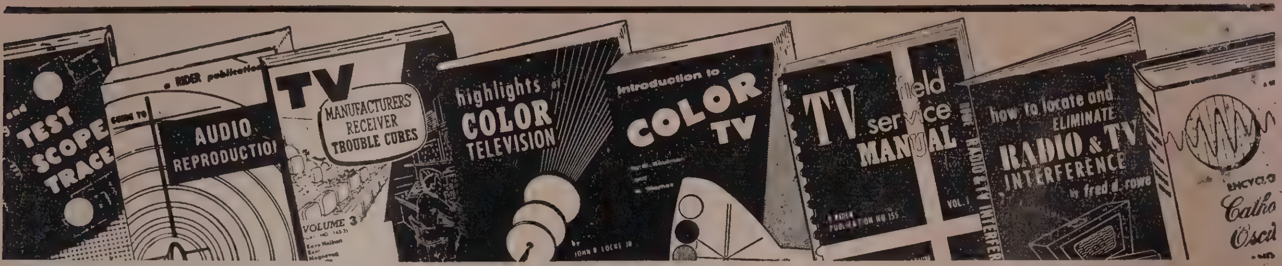

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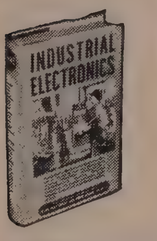

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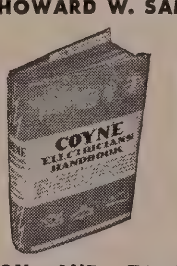

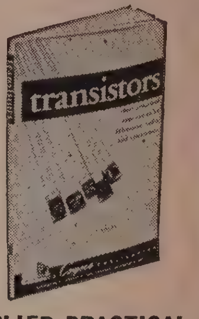

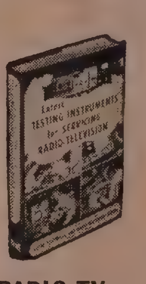

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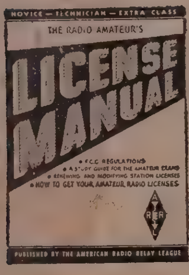
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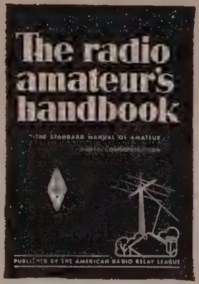
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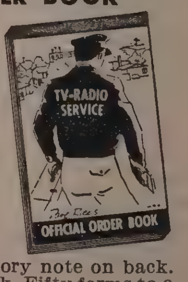
DAVE RICE'S OFFICIAL TV-RADIO SERVICE ORDER BOOK



Designed and approved by servicemen. Includes material to meet any service requirement, provides information never before available on standard forms. **Original** in blue on white paper, with guarantee and explanation of interference on back. **Duplicate** in red on yellow with CRT storage release and promissory note on back. **Triplicate** in blue on pink. Fifty forms to a book, numbered consecutively in sets. Handy size, 5½" wide x 8½" long. Two sets of carbon; each book bound with maroon finish strip.

Dave Rice's Official Order Book—Dust-proof box of 10 books, Price **$6.50**
Per single book.................... **75c**

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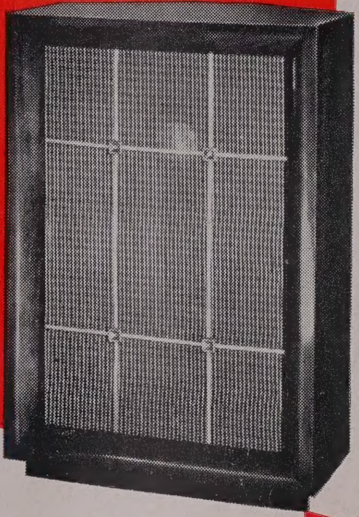

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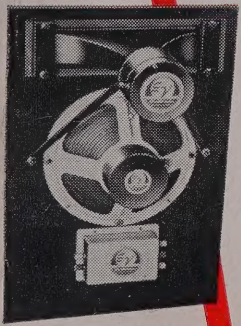

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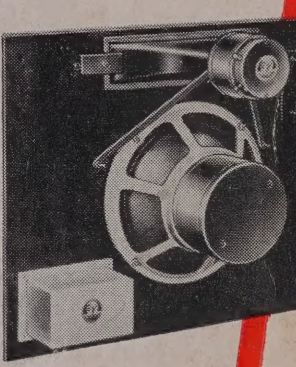

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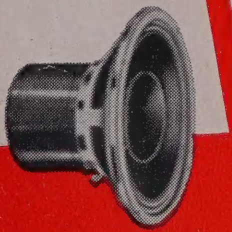

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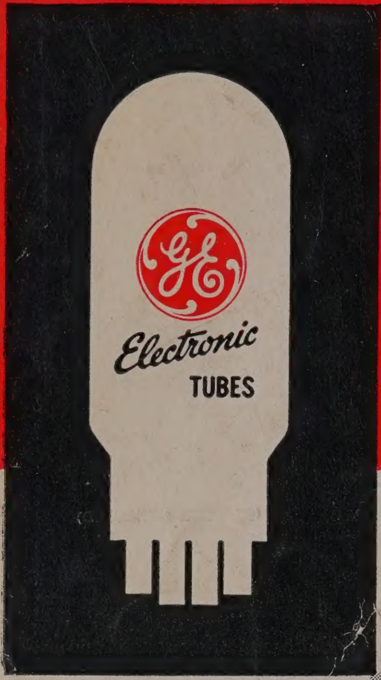
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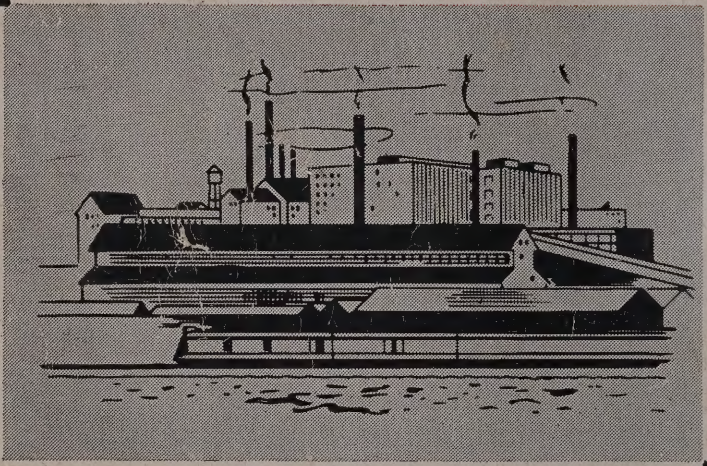

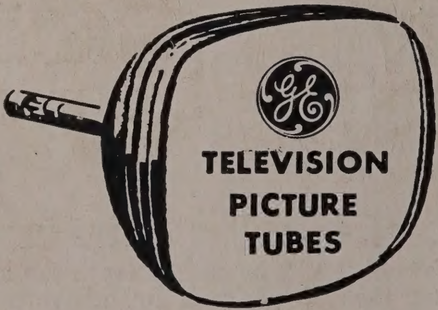
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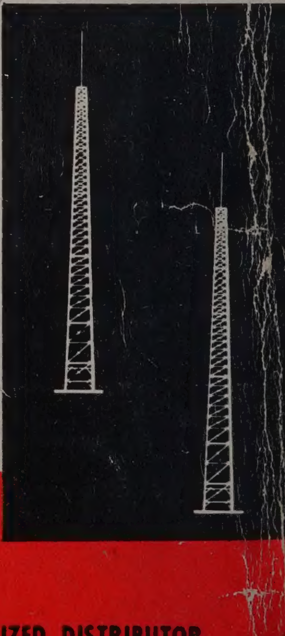

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